Fitaba.



We Put the Future of R/C in Your Hands™

READY FOR 2.4GHz?



SO IS FUTABA-

WITH THE ONLY R/C SYSTEMS AND ACCESSORIES BACKED BY YEARS OF EXPERIENCE WITH 2.4GHz TECHNOLOGY.

When you choose a Futaba 2.4GHz FASST system or module/receiver set, you've selected a fully tested, well-engineered, totally reliable product — one that's absolutely ready to give demanding R/C hobbyists the performance they deserve.

Our hands-on experience with 2.4GHz technology stretches back 15 years, long before anyone considered it for hobby applications. That's when engineers in Futaba's industrial R/C division — designers of radio-control tools for construction, civil engineering, and similar uses — began using and perfecting their own 2.4GHz equipment.

Those same engineers were brought in to share their knowledge as soon as we saw the potential for 2.4GHz in R/C modeling. No other radio manufacturer had such an instant supply of expertise.

When it comes to getting the full benefits of 2.4GHz technology, you'll find that Futaba's experience makes all the difference. Ask competitors such as driver Taylor James, who has already racked up multiple wins with Futaba's 3PK 2.4GHz...or pilot Jason Shulman, who says "the fast response and glitch-free performance are unbelievable!"



ADVANTAGES OF FUTABA FASST 2.4GHz SYSTEMS:



Other 2.4GHz systems hold firm to one or two frequencies, increasing the potential for interference. The frequency of Futaba 2.4GHz FASST shifts every two milliseconds — or 500 times per second! There are no signal conflicts or interruptions, and there's no need for a frequency pin.



Futaba 2.4GHz FASST systems seamlessly select the best reception between two receiver antennas, so there's no loss of signal.

R603FF receiver included with 3PM 2.4GHz does not offer Dual Antenna Diversity.



2.4GHz FASST scans incoming data and applies sophisticated error correction techniques — resulting in a system that gives you a solid, impenetrable connection with your model.



Futaba 2.4GHz FASST system transmitters leave the factory with a unique and permanent ID code. Once linked to the receiver, the code ensures that the receiver will recognize and respond ONLY to that transmitter. The linking process is simple... just push a button on the receiver.

Patent # 6,141,392

100x Faster Antenna Switching

If the receiver notices a problem with the data coming into one antenna, it rapidly switches to the other, looking for the sharpest signal.

Comparing the R606FS receiver to the AR600 receiver.

Stronger, More Robust Link

Futaba doesn't need redundant receivers. Instead, we use a proven combination of Channel Shifting and Dual Antenna Diversity (DAD) to provide a robust, highly dependable link between transmitter and receiver.

Custom-Developed IC Chips

Futaba uses custom IC chips that have been designed specifically for radio-control—ensuring quality, reliability, and security. This is why Futaba FASST systems are faster and more reliable than the competition.



Compact, "All-in-One" Receivers

Futaba's small, powerful 2.4GHz FASST R607FS receivers for flight systems can control giant-scale models as easily as park flyers and weigh a scant 7 grams without case. Full-range systems from other manufacturers include a bigger, two-piece receiver, and you must purchase a smaller park flyer receiver separately.



Over 2x Less Minimum Latency

Latency is the elapsed time between your movement of the transmitter controls and servo response. In Futaba 2.4GHz FASST systems, that response can happen over twice as fast — so you feel less like you're "out in

feel less like you're "out in front" leading your model, and more like you're inside driving or flying it.

Comparing the 6EX FASST system to the DX7.



Hassle-Free Fail-Safe

Futaba 2.4GHz's fail-safe is programmed right through the transmitter on the 6EX, just like on conventional systems. Other radios require a complicated six-step process to set up their fail-safe, along with a separate binding plug that can easily be misplaced.

There's no better match for Futaba than Futaba.

Futaba put an incredible amount of thought into how well our 2.4GHz FASST components work together. With Futaba 2.4GHz modules, you simply plug into the module port just like you've done for every module you own. Connections are a snap, and you can still pivot the antenna to maximize your RF link.

I4MZ I4-CHANNEL COMPUTER RADIO

It is the finest radio Futaba has ever made — and it's designed for the pilot who wants the very best.

It can be programmed with a touch or by using a rotary dial to instantly pull up any one of 30 digitally precise model memories. But more importantly, the 14MZ can coax the last possible fraction of perfection from performance you previously considered unbeatable.

You can add your own audio and picture files, tailor switch location, style and function to your preference and enjoy up to three hours of flying time before recharging your transmitter pack.

The future is now. Grab it with the 14MZ.



- Transflexive, 640 x 240 HVGA Display w/ adjustable contrast and backlighting.
- Expandable, 30-model Flash-ROM memory
- Functions per menu: 7 (system); 16 (linkage); 16 (airplane); 15 (heli)**
- 9 flight conditions

- 6 digital trims
- 4 slider switches (2 side-mount; 2 front/ back accessible)
- Touch screen stylus, cleaner, hex wrenches & neck strap

14 Specifics

- Equipped with dual internal processors: Windows® CE for set-up/programming tasks; Futaba for flight control functions.
- Dual programming methods:
 "Touch n' Go"™ touch screen or rotary dial and direct select buttons
- Included, 32MB Compact Flash Card can be used to: download/store images; record/play back sound files & voice prompts; & expand memory to 100 models
- Switch customizing lets you pull out existing shoulder switches and replace with: tall; short; button; toggle; springloaded or positionable switches
- ** = minimum number of functions shown.

Learn more on the Web at www.14mz.com

| Stock # | System | Mode | Modulation | Band | Receiver | Servos | Rx Battery | Tx Battery |
|-----------|--------------|------|------------|--------|----------|--------|--------------|---------------|
| FUTK9400 | 14MZAP FASST | 2 | FASST | 2.4GHz | R6014FS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTK9401 | 14MZHP FASST | 2 | FASST | 2.4GHz | R6014FS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTK9402 | 14MZAP FASST | 1 | FASST | 2.4GHz | R6014FS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTK9403 | 14MZHP FASST | 1 | FASST | 2.4GHz | R6014FS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9412+ | FX-40 | 2 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9416+ | 14MZAP | 2 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9418+ | 14MZHP | 2 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9422+ | 14MZAP | 2 | PCMG3 | 50MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9424+ | 14MZHP | 2 | PCMG3 | 50MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9426+ | 14MZAP | 1 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9428+ | 14MZHP | 1 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |

+ = Synthesized **Note:** Battery part numbers: NR4F1500 (1500mAh NiCd); FLT2F2200 (2200mAh Lilon)



12Z/14MZ System Overview

- G3 2048™ resolution for Real-Time Response™
- Fully synthesized for crystal-free operation and all-channel access
- Backwards compatible with FM/PPM & PCM 1024 systems (requires appropriate module)
- Assignable switches/functions
- · Expandable, multi-model memory
- Model clear, copy & naming
- Airplane/glider & heli software
- 10 programmable mixes
- Servo reversing, servo center & EPA (all channels)
- 6 factory-preset Variable Dual Rates™
- Servo Grouping[™] for multi-servo synchronization
- Software for Mode 1-4 control setups
- · Gimbals with quad bearings and long-life potentiometers
- · Sticks w/adjustable length, tension and detent
- 8 shoulder switches
- 3 rotary dials
- 7.4V, 2200mAh Lithium Ion Tx and 4.8V, 1500mAh NiCd batteries
- 7-color status LED for at-a-glance reference
- Charging, DSC & trainer jacks
- Includes Free Membership in Futaba Flyers Club, plus deluxe metal carrying case, wall charger, neck strap, DSC cord and rubber grips

IZ-CHANNEL COMPUTER RADIO

The performance and programming potential of the 12Z rivals that of the 14MZ, but the value it offers is uniquely astonishing. For the pilot who values function above all else, the 12Z emerges as a sound investment in terms of cost and a luxurious indulgence in the best that a flight system can be.

12Z Overview

- 300 x 128 LCD w/adjustable contrast
- Dial 'n Key™ jog dial programming
- Expandable, 25-model EEPROM memory
- Functions per menu: 8 (system); 14 Airplane/16 Heli (linkage); 14 (airplane); 17 (heli)
- 8 flight conditions
- 4 digital trims (4 basic channels)
- 2 slider switches



- Variable Dual Rates can be assigned to any function in any configuration. They can be combined with Expo and activated automatically, without program mixing, by bringing a specific function on-line
- Ultra-fine, 0.5% setting increments for precision set-up & "quickstep" mode for multi-increment advancement
- Online updates function allows you to download system advancements and enhancements on the Internet
- Engine mixing option offers virtually unlimited synchronizing capabilities for up to four engines
- Factory-preset functions and shortcuts include two dozen model types: 7 wing, 6 flying wing and 3 tail types for airplanes, plus 8 swash types for helis



Advanced Ball Grid Array (BGA) layered PC board helps make the R5114DPS the world's most compact 14channel synthesized receiver. Crystal-free WFSS (Wireless Frequency Setting System) allows frequency changes direct from the transmitter.

Available on all 50 & 72MHz versions of the 12Z and 14MZ.



12Z Specifics

- Includes two Futaba processors: one for flight control; one for setup/ programming.
- "Joystick" button simplifies and speeds menu navigation.
- 32MB Compact Flash Card (sold separately) expands memory to 245 models.
- · Back plate-mounted slider switches offer fingertip control



| Stock # | System | Mode | Modulation | Band | Receiver | Servos | Rx Battery | Tx Battery |
|-----------|--------------|------|------------|--------|----------|--------|--------------|---------------|
| FUTK9300 | 12MZAP FASST | 2 | FASST | 2.4GHz | R6014FS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTK9301 | 12MZHP FASST | 2 | FASST | 2.4GHz | R6014FS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTK9302 | 12MZAP FASST | 1 | FASST | 2.4GHz | R6014FS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTK9303 | 12MZHP FASST | 1 | FASST | 2.4GHz | R6014FS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9316+ | 12ZAP | 2 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9318+ | 12ZHP | 2 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9322+ | 12ZAP | 2 | PCMG3 | 50MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9324+ | 12ZHP | 2 | PCMG3 | 50MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9326+ | 12ZAP | 1 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |
| FUTJ9326+ | 12ZHP | 1 | PCMG3 | 72MHz | R5114DPS | _ | 1500mAh NiCd | 2200mAh Lilon |

+ = Synthesized **Note:** Battery part numbers: NR4F1500 (1500mAh NiCd); FLT2F2200 (2200mAh Lilon)

IZFG IZ-CHANNEL COMPUTER SYSTEMS



The perfect choice for more and more pilots.

A popular choice, and for obvious reasons: the 12FG makes channel synthesis and Futaba's best in programmable precision more affordable in more ways than ever before. You can choose from 6 fully synthesized PCM systems and four others that offer the cutting-edge dependability of 2.4GHz technology.

The choices are yours — and they're all from Futaba.

Boost model memory to 1,882 with a 1GB SD Gard from your local electronics store!

12FG System Overview

- G3 2048™ resolution
- Servo Grouping™
- Real-Time Response™
- 6 Variable Dual Rates™ (VDR)
- Dual Antenna Diversity™ (DAD)*
- 2 slider switches (front/back access)
- 2 rotary dials
- · Assignable switches/functions
- "Full Functionality" trainer system
- Dial 'n Key™ programming w/function select/set button
- Menus/functions System (6); Linkage (14 air, 16 heli); & Model (13 air, 16 heli)

- Airplane, sailplane & heli software
- Online updates/downloads
- 30-model Flash-ROM memory
- · 8-character model naming
- · Model clear/copy/re-set
- 8 flight conditions (7 + default)
- 10 "free" mixes
- 255 x 96 LCD w/adjustable contrast
- Digital trims w/auto memory (6 ch.)
- Dual/triple rates, servo centering, servo reversing, exponential & endpoint adjustment (all channels)
- DSC & fail-safe



12FG System Specifics

- Backwards-compatible with all PCM and FM/PPM receivers
- FM/PPM, PCM1024 & G3 2048 transmission modes
- Shortcuts to factory-preset functions
- 0.5% settings increments, plus "Fast Forward" feature
- Combined airplane/sailplane software
- Preset functions: 7 wing/6 flying wing/3 tail types (for fixed-wing craft); 8 swash types (helis)
- Variable rate/exponential single switch option
- Additional features: elapsed time counter; dual, independent up/down timers; quad bearing gimbals; stick customizing; LED battery indicators; heavy-duty switch harness; neck strap; Tx & Rx batteries; charger & charging jack.

 * = Only on 2.4GHz systems

| Stock # | System | Mode | Modulation | Bands | Tx Module | Servos | Receiver | Rx Battery | Tx Battery |
|-----------|---------------------|-----------|-------------------|--------|-----------|--------|----------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FUTK9275 | 12FGA FASST | 2 | FASST | 2.4GHz | TM-14 | _ | R6014FS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTK9276 | 12FGH FASST | 2 | FASST | 2.4GHz | TM-14 | | R6014FS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTK9277 | 12FGA FASST | 2 | FASST | 2.4GHz | TM-14 | _ | R6014FS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTK9278 | 12FGH FASST | 2 | FASST | 2.4GHz | TM-14 | _ | R6014FS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTJ9200+ | 12FGAP | 2 | PCMG3 | 72MHz | MZ-FM** | _ | R5114DPS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTJ9201+ | 12FGHP | 2 | PCMG3 | 72MHz | MZ-FM** | _ | R5114DPS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTJ9205+ | 12FGAP | 2 | PCMG3 | 50MHz | MZ-FM** | _ | R5114DPS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTJ9206+ | 12FGHP | 2 | PCMG3 | 50MHz | MZ-FM** | _ | R5114DPS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTJ9210+ | 12FGAP | 1 | PCMG3 | 72MHz | MZ-FM** | _ | R5114DPS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| FUTJ9211+ | 12FGHP | 1 | PCMG3 | 72MHz | MZ-FM** | _ | R5114DPS | NR4F1500 1500mAh NiCd | HT6F1700B 1700mAh NiMH |
| Cunthoo | cized System ** - N | 47 EM not | ovojloblo goporat | oly | | | | | The state of the s |

+ = Synthesized System ** = MZ-FM not available separatel

9-CHANNEL COMPUTER SYSTEMS

All three modes

are enhanced.

Sophisticated systems for flight and surface use

For some modelers, the 9C's best feature is the amazing depth and breadth of the things it can do. For others, it's the ability to tap the 9C's full potential with "Dial 'n Key" programming ease. For still others, it's how the 9C synthesized versions eliminate the hassle of dealing with crystals. But with every 9C featuring a 16K CAMPac Module as standard equipment, all modelers can agree on at least one thing: Futaba's 9C delivers more value and versatility for the dollar than ever before.

Glider Mode

- Three other offsets (launch, thermal and speed) besides basic offset, with customized camber for each
- The four camber mixes can be programmed to any variable dial, and set up on one screen
- Any R/C aircraft especially those with 4-servo wings will benefit from the 9C Super's built-in flexibility and set-up ease

Airplane Mode

- You can set up a 2-rate (Up/Down) or 3-rate (Up/Center/Down) GYA gyro system with a selectable switch and channels 5, 7 or 8
- The Air Brake is now switch-selectable

Heli Mode

- Throttle Curve and Pitch Curve now feature a delay for smoother transition from hover to idle-up
- The throttle hold and idle-up can be assigned to any switch for more comfort

Stock # Mode Modulation Bands Tx Module Rx Rx NiCd Tx NiCd System Servos FUTK75** FM 50.72MHz TP-FM R148DF NR4J 600mAh NT8S700B 700mAh 9CAF* NR4RB 1000mAh NT8S700B 700mAh FUTK76** FΜ 50,72MHz TP-FM R148DF 9CHF* FUTK77** 9CAP PCM 50,72MHz TP-FM R149DP NR4J 600mAh NT8S700B 700mAh PCM TP-FM NR4RB 1000mAh NT8S700B 700mAh FUTK78** 2 50,72MHz R149DF FUTK85** 2 FM 50,72MHz TP-FM (4)S3151 R148DF NR4J 600mAh NT8S700B 700mAh 9CAF* FUTK86** 9CHF* FM 50.72MHz TP-FM (4)S3151 R148DF NR4RB 1000mAh NT8S700B 700mAh FUTK87** 9CAP PCM 50,72MHz TP-FM (3)\$9252 R149DF NR4J 600mAh NT8S700B 700mAh (1)S3151TP-FM (4)S9252 NR4RB 1000mAh NT8S700B 700mAh FUTK88** PCM 50.72MHz R149DP FUTK89** 2 PCM 75MHz TP-FM (2)S3151 R138DP NR4J 600mAh NT8S700B 700mAh 9CAP* FUTK9200 **PCM** 72MHz TP-FSM R319DPS NT8S700B 700mAh QCAPS-2 TP-FSM R319DPS NT8S700B 700mAh FUTK9205 2 **PCM** 72MHz 9CHPS+ FUTK9210 PCM 72MHz TP-FSM R319DPS NR4J 600mAh NT8S700B 700mAh 1 9CAPS+ FUTK9211 PCM 72MHz TP-FSM R319DPS NR4RB 1000mAh NT8S700B 700mAh 9CHPS+



Get the 9C system that'll help you get the most out of your model.

9C Helicopter Systems

With 9C heli systems, you can program: 1) gyro sensitivity level; 2) governor speed; and 3) rate of servo travel for up to 4* conditions — and let the 9C automatically change settings when you change conditions.

*5 conditions on gyro sensitivity

9C Surface System

The 9C surface system offers the programming ease and versatility of 9C flight systems on 75MHz with PCM modulation. It's ideal for battling robots, marine masterpieces, big rigs and super-sized custom control applications.

9C Super PCM w/Synthesized Tx Module & R319DPS Rx

It has all the benefits of the 9C — and more. Simply turn two dials on the synthesized transmitter module and adjust two pots on the synthesized receiver, and select any free 72MHz channel without installing crystals.



All 9C systems include a 16K CAMPac module which boosts total memory to 18 models!



Dial 'n Key™: computer programming at its best!
Just rotate the dial to find the program you want.
Press the dial to open it and use the dial and cursor keys to set values.

 $^{^{\}star}=$ Transmits on 8 channels; += Synthesized

7-CHANNEL COMPUTER SYSTEMS



Incredible sport radio systems - many with digital servos!

• It's the perfect system for intermediate-level pilots - incredible 9-channel performance features combined with 4-channel programming ease!

Thanks to its unsurpassed combination of value, form and function, the 7C is guaranteed to satisfy virtually all intermediatelevel desires. All 7C systems feature the ease of Dial 'n KeyTM programming to let users access an enormous range of functions. Best of all, the foolproof layout features a Basic menu for simple set-ups while the Advanced menus present a variety of tasks for more complex models.

7C System Overview

- 10-Model memory
- · 6-Character model naming
- Digital trims, trim memory, end point adjustment (EPA), sub trims and servo reversing (all channels)
- Dual or triple rates* (aileron/elevator/ rudder)
- Exponential (aileron/elevator/rudder/ throttle)
- · Adjustable throttle cut
- Fail-Safe (PCM and FASST™ modulation only)



· Flap switch

• Trainer system (cord required)

- · Retract switch
- Variable rate knob (channel 6)
- Tx and Rx NiCds w/dual-output charger
- · Sticks w/length and tension adjustment
- Software for Mode 1-4 control set-ups
- Timer countup/countdown
- * = with 3-position switch use

With Futaba's innovative Dial 'n Key, just rotate the dial to find the program you want and press it to open the program. Use the dial and cursor keys to set values.



Airplane Advanced Menu

- 3 programmable mixes
- Flaperon
- Flap Trim
- · Air Brake
- · Elevator to Flap mixing
- · Flap to Elevator mixing
- V-Tail Mixing
- · Elevon Mixing
- · Aileron to Rudder mixing
- · Snap Roll
- Dual Elevator Servos (FASST versions only)

Helicopter Advanced Menu

- 3 programmable mixes
- Throttle curve (5-point N=normal, idle up 1 & 2)
- Pitch curve (5-point normal, idle up 1 & 2)
- · Revo mixing
- · Gyro mixing
- Hovering throttle
- · Hovering pitch
- Throttle hold
- Trim offset (aileron/elevator/rudder)
- 6 Swash plate set-ups (5 CCPM options)
- · Governor select and swash to throttle mixing (FAAST versions only)

| Stock # | System | Mode | Modulation | Bands | Servos | Receiver | Rx NiCd | Tx NiCd |
|----------|-----------|------|------------|--------|-----------|----------|---------------|-----------------|
| FUTK7000 | 7CA FASST | 2 | FASST | 2.4GHz | (4) S3152 | R607FS | NR4J 600mAh | NT8S600B 600mAh |
| FUTK7001 | 7CH FASST | 2 | FASST | 2.4GHz | (4) S3152 | R607FS | NR4RB 1000mAh | NT8S600B 600mAh |
| FUTK7002 | 7CA FASST | 2 | FASST | 2.4GHz | (4) S3004 | R607FS | NR4J 600mAh | NT8S600B 600mAh |
| FUTK7003 | 7CH FASST | 2 | FASST | 2.4GHz | (4) S3001 | R607FS | NR4RB 1000mAh | NT8S600B 600mAh |
| FUTJ69** | 7CAF | 2 | FM | 72MHz | (4) S3004 | R168DF | NR4J 600mAh | NT8S600B 600mAh |
| FUTJ70** | 7CAF | 2 | FM | 72MHz | (4) S3151 | R168DF | NR4J 600mAh | NT8S600B 600mAh |
| FUTJ71** | 7CAP | 2 | PCM | 72MHz | (4) S3151 | R138DP | NR4J 600mAh | NT8S600B 600mAh |
| FUTJ73** | 7CHF | 2 | FM | 72MHz | (4) S3151 | R168DF | NR4RB 1000mAh | NT8S600B 600mAh |
| FUTJ74** | 7CHP | 2 | PCM | 72MHz | (4) S3151 | R138DP | NR4RB 1000mAh | NT8S600B 600mAh |

7C System Specifics

- (72MHz systems only)
- Software for airplanes and helis
- Assignable Switches/Functions
- Mode 1-4 selectable (modes 3 and 4 available through the transmitter software)
- Selectable FM/PCM Modulation Large, 72 x 32 LCD screen with adjustable contrast
 - Versions range from an FM aircraft system with standard servos (FUTJ69**) to 2.4GHz systems with digital high-torque servos (FUTK7000/FUTK7001)

6-CHANNEL COMPUTER SYSTEMS

Choose from four 72MHz 6EXP systems and three 2.4GHz 6EX radios!

The advantages 6EX systems offer are clear...and numerous. The wide range of proven features from the ground-breaking original is one; affordable price runs a close second. But there's also software for airplanes and helis. Suitability to virtually any pilot, from first-timers to long-time fliers. High-definition LCDs, easy, go-with-the-flow programming, digital trims — and a host of attractive choices.

Both systems are available with servos for fixed-wing pilots and heli pilots, as well as in versions that offer the pilot total freedom of servo choice. 6EXP systems offer you the option for FM/PPM or PCM transmission. 6EX systems, on the other hand, offer the undeniable reliability, interference-free operation and "locked in" feel of Futaba's proven FASSTTM technology.

6EX System Overview

- 6-model memory
- · 4-character model naming
- Simple 1 lever/2 button programming
- LCD
- Data clear & reset
- Digital trims w/auto memory (4 channels)
- EPA and servo reversing (all channels)
- Dual rates & exponential (ail/ele/rud)
- Throttle fail-safe (PCM only & FASST only) Single-switch control of dual rates
- Throttle kill button (adj.)
- Trainer system (cord required)

- Flap switch
- · Retract switch
- · Dual-rate switch
- Tx NiCd & dual output charger
- Sticks w/length adjustment
- Software for Mode 1-4 control set-ups
- Low battery and mixing alarms
- FM/PPM or PCM selectable (6EXP only)
- Single-switch control of dual rates and expo



Airplane Menu

- 2 programmable mixes
- Flaperon
- · V-tail mixing
- Flap Trim
- Elevon mixing

Helicopter Menu

- Throttle hold
- Gyro mixing
- · Revo mixing
- Throttle curve (5-point, normal & idle-up)
- Pitch curve (5-point, normal & idle-up)
- · Swash-to-throttle mixing
- 3 swash plate types (independent, plus 90° and 120° CCPM)

| Stock # | System | Modulation | Band | Servos | Receiver | Rx Battery | Tx Battery |
|----------|-------------|------------|--------|-----------|----------|---------------|-----------------|
| FUTK6900 | 6EXAH FASST | FASST | 2.4GHz | _ | R606FS | NR4J 600mAh | NT8F600B 600mAh |
| FUTK6901 | 6EXA FASST | FASST | 2.4GHz | (4) S3004 | R606FS | NR4RB 1000mAh | NT8F600B 600mAh |
| FUTK6902 | 6EXH FASST | FASST | 2.4GHz | (4) S3001 | R606FS | NR4J 600mAh | NT8F600B 600mAh |
| FUTK62** | 6EXP | FM | 72MHz | _ | R168DF | NR4RB 1000mAh | NT8F600B 600mAh |
| FUTK63** | 6EXP | FM | 72MHz | _ | R156F | NR4J 600mAh | NT8F600B 600mAh |
| FUTK64** | 6EXP | FM | 72MHz | (4) S3004 | R168DF | NR4RB 1000mAh | NT8F600B 600mAh |
| FUTK65** | 6EXP | FM | 72MHz | (4) S3001 | R168DF | NR4J 600mAh | NT8F600B 600mAh |

Legend: A = Airplane; AH = Airplane and Heli; H = Heli

4YF 4-Channel System

Entry-level ease – Advanced-level performance!

Since its introduction, beginners and experts alike have been impressed by the way the 4YF SkySport offers pilots dependable 4-channel performance for the cost of a 2-channel system. Genuine Sanyo® NiCds and a 1-year warranty are just a few reasons why the versatile Futaba 4YF has become virtually every flyer's favorite!

4YF System Overview

- FM signal clarity
- Ergonomic, slim-line case
- Trainer system
- Spring-loaded trainer switch
- Red/Green battery status LEDs

- Knurled sticks w/length and tension adjustments
- Tx NiCd w/dual-output charger
- Servo reversing (all channels)
- · Adjustable trims (all channels)

| Stock # | System | Modulation | Bands | Servos | Rx | Rx NiCd | Tx NiCd |
|----------|----------------|------------|----------|-----------|--------|--------------|-----------------|
| FUTJ36** | 4YF Micro | FM | 72MHz | (2)S3114 | R114F | _ | NT8F600B 600mAh |
| FUTJ38** | 4YF Micro Lite | FM | 72MHz | (2)S3109M | R124F | _ | NT8F600B 600mAh |
| FUTJ40** | 4YF | FM | 72,75MHz | (4)S3004 | R168DF | NR4QB 600mAh | NT8F600B 600mAh |



4EXA

4-Channel ComputerSystem

Expand to greater heights of dependability!

The perfect way to progress from basic 4-channel radios into the added ease and versatility of a 4-channel computer system. The 4EXA provides a trouble-free transition. Thanks to four-model memory, plus unrivaled set-up and performance features, this computer system gives pilots features sport systems only dream of offering.

4EXA System Overview

- · FM signal clarity
- Simple 2 button/1 lever set-up
- Mode 1-4 stick set-up
- 4-model memory
- Data reset
- Digital trims w/automatic trim memory; servo reversing and end point adjustment (all channels)
- Exponential (aileron/elevator/rudder)

- Wing mixing (V-tail, elevon)
- 40-segment LCD screen
- Trainer system (cord required)
- Low battery alarm
- Transmitter NiCd and dual-output charger
- Rx NiCd
- · Charge jack
- · Sticks w/length adjustment

| Stock # | System | Modulation | Bands | Servos | Rx | Rx NiCd | Tx NiCd |
|----------|--------|------------|-----------|----------|--------|--------------|-----------------|
| FUTK40** | 4EXA | FM | 72, 75MHz | (4)S3004 | R168DF | NR4QB 600mAh | NT8F600B 600mAh |



2DR & 2ER 2-Channel Systems



DR



3FR3-Channel System

To some modelers, using both hands to support and control a radio just feels right. For them, these 2-stick systems are the perfect choice. The 2DR is ideal for operating R/C boats and vehicles, while the 2ER is great for sailplanes. Shorter control sticks on both systems allow smaller hands a chance to enjoy a full range of movement.

2DR & 2ER System Overview

- Steering and throttle control
- Trims (throttle and steering)
- 2-Channel servo reversing

- Battery status LEDs
- Ergonomic case with molded-in carrying handle
- 2ER available on 72MHz for sailplane use

| | Stock# | System | Modulation | Bands | Servos | Receiver |
|---|----------|--------|------------|----------|-----------------------|----------|
| ı | FUTJ22** | 2DR | AM | 75MHz | (1) \$3003,(1) \$3802 | R132JE |
| | FUTJ23** | 2DR | AM | 75MHz | (1) S3003,(1) S3801 | R132JE |
| | FUTJ25** | 2DR | AM | 27/75MHz | (2) S3003 | R132JE |
| | FUTJ46** | 2ER | AM | 72MHz | (2) S3003 | R122JE |

Single-stick simplicity for sport!

The 3FR is designed to mold itself to the hand's contours and mechanics and priced to make it a perfect fit in any budget. Mixing is available at the flip of a switch — and control for throttle, spoilers or flaps is right at your fingertip.

3FR Overview

- V-Tail & elevon mixing (On/Off)
- Single-stick control
- Proportional 3rd channel
- Servo reversing (Channel 1 & Channel 2)
- Trims (Channel 1 & Channel 2)
- Battery status LEDs
- NiCd charge jack

| Stock# | System | Modulation | Bands | Servos | Receiver |
|----------|--------|------------|-------|-----------|----------|
| FUTJ51** | 3FR | AM | 72MHz | (2) S3003 | R114H |



4VWD 4-Channel Surface System

Imagine it, and with the 4VWD you can make it happen. Along with two channels for throttle and steering control you also have two more to bring your model to life. From trimming the sails on a yacht to commanding the treads and armament on a tank to shifting the gears on a big rig — even controlling the subtle movements of a robot — the 4VWD is the system that puts you in total control.

4VWD System Overview

- Four proportional channels
- Trims (all four channels)
- · 4-Channel servo reversing
- Adjustable stick length and tension
- · Battery power meter
- Ergonomic case with molded-in carrying handle
- Special gate for throttle stick duplication of tank shift pattern

| | Futaba |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| VICTOR TO STATE OF THE STATE OF | ATTACK |
| 7.5 | |

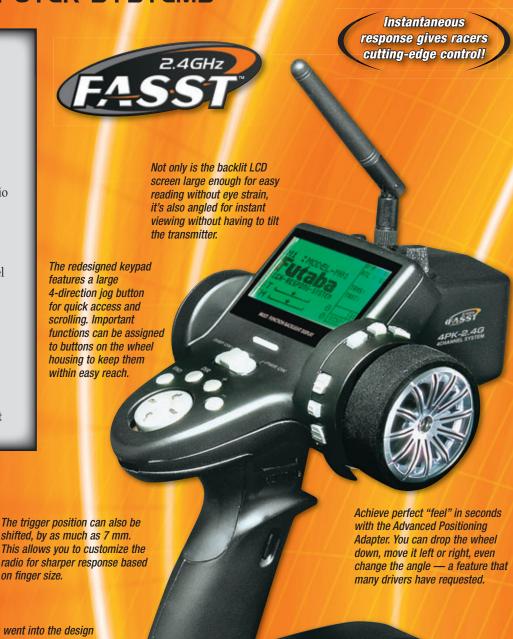
| Stock# | System | Modulation | Bands | Servos | Receiver |
|----------|--------|------------|-------|-----------|----------|
| FUTJ60** | 4VWD | AM | 27MHz | (2) S3004 | R124H |

4PK

4-CHANNEL COMPUTER SYSTEMS

Where form, features and functionality come together to create the premier racer's radio.

It's the system designed for dominance — both literally and figuratively. The 4PK's contemporary styling is not only unique, it's extremely well-balanced and ergonomic. Add to that comfort the fact that the transmitter weighs only 1.5 pounds, and you've got a radio that fights hand fatigue all the way to the end of a grueling main. Besides the repositionable wheel, you can also adjust the trigger location to fit your finger — another great "feel" feature. Programming pluses include 40-model memory, 10-character naming, super-sensitive 2048 resolution...and a 4th channel that's ideal for adjusting front and rear brake bias in larger vehicles. Oh, there's also this: the 4PK was designed from the beginning as a spread spectrum system. That means that there's no module to worry about, a state-of-the-art receiver is included, and all of the incredible advantages of FASST system technology are at your command.



T4PK DIGITAL PROPORTIONAL RIC SYSTEM FUTABLE

Much consideration went into the design of the 4PK's grip, which is slightly thicker to accommodate larger hands. Besides being lighter, the transmitter's weight is well-balanced for added comfort.

 Stock #
 System
 Modulation
 Band
 Receiver
 Tx NiMH

 FUTK4900
 4PK FASST
 FASST
 2.4GHz
 R604FS
 1700mAh

4PK System Overview

- Ergonomic design for balance, feel, weight and adjustability
- 40-model memory
- 10-character model naming
- · 4th channel for adjusting brake bias
- 2 programmable mixes
- · Assignable buttons and dials
- · Digital trims and dials
- Advanced Positioning Adapter (APA)
- · Adjustable trigger location
- Backlit 128 x 64 white LCD screen with adjustable contrast
- Subtrims, servo reversing and EPA on all channels
- Throttle Variable Trace Rate (VTR)

- Fail-safe and battery fail-safe (voltage selectable)
- Direct Servo Control (DSC)
- Exponential & adjustable servo speed (Steering/Throttle)
- Up/Down, lap & systems timers
- 100-lap memory
- Electronic & mechanical ATL (Adjustable Throttle-Low side only)
- Traction control/Acceleration rate
- ABS braking system
- · Boat mixing
- Idle-up
- Tx NiMH and dual-output charger

4PK Specifics

- "New Driver", "Race-Ready", "Expert" and "Big Car" menus that add functions based on driving skill level and experience
- Throttle Mode Select, for selecting acceleration/brake servo neutral points between 70/30 for nitro or 50/50 for electrics
- · Redesigned keypad with large center jog button
- · Vibrating alert system
- "Direct Select" single-button access to eight preassigned functions
- Navigation Lap Timer that sounds when target lap time is exceeded
- Servo Display Screen shows set-ups/mixes for individual servos (Expert Menu)
- Throttle programming options, including 5-point curve, expo and VTR

Enjoy all of the benefits of FASST system technology!









Even faster response than the 3PK!



No NiCd battery here — the 4PK comes with an 1700mAh NiMH transmitter pack that's comparable in size, but with almost twice the capacity. That means about TWO HOURS of operation on a single charge...enough for the longest of mains.



The included R604FS receiver features Dual Antenna Diversity (DAD) for reliability and security. Its compact size (1.54 x 1.02 x .55 inches) and weight (0.49 ounces) lets you use it in the tightest installations.

Also compatible with R603FS and R603FF receivers

40-MODEL MEMORY

THROTTLE VARIABLE
TRACE RATE (VTR)

VIBRATING ALERT SYSTEM (VAS)



Servo Recommendations by application

| Category | Steering | Throttle | |
|---------------|--------------------|--------------------|--|
| 1/8 On-road | BLS351/S9350/S9351 | BLS451/S9350/S9351 | |
| 1/8 Off-road | BLS351/S9350/S9351 | BLS451/S9350/S9351 | |
| 1/10 Nitro | BLS351/S9452 | BLS451/S9350/S9351 | |
| 1/10 Electric | BLS451/S9452 | ESC | |
| 1/12 Electric | S9650 | ESC | |
| 1/4 & 1/5 Gas | S5050 | S9350/S9351 | |

3PK SUPER & SUPER SYNTHESIZED

3-CHANNEL COMPUTER SYSTEMS

High end performance for serious racers.

In top-level racing, speed and accuracy are everything. And with the 3PK, you have everything you need to succeed, right in the palm of your hand.

Add digital servos to the 3PK versions with R203HF or R303FHS receiver, transmit on HRS modulation, and you'll enjoy blink-of-an-eye response. The R303FHS receiver also adds channel synthesis. That means ONE radio for on-road, off-road, electric or nitro racing — and without changing crystals! Plus, by just turning on the transmitter, the R303FHS receiver automatically identifies and adapts to the modulation in use.

3PK System Overview

- FM/PPM/HRS modulation (27, 75MHz systems only) Subtrims, servo reversing and EPA on all channels
- Expandable, 20-model memory
- 10-character model naming
- Assignable switches and dials
- · Digital trims and dials
- Automatic trim and dial memory
- Advanced Positioning Adapter (APA)
- "MC Setup" (adapts ESCs to higher HRS frame
- Backlit 128 x 64 LCD screen with adjustable
- All programming options contained on two screens
- · 2 programmable mixes

- Fail-safe and battery fail-safe (HRS, PCM & FASST modulation only
- DSC (Direct Servo Control)
- Exponential & adjustable servo speed (steering/ throttle)
- Up/down, lap & systems timers
- ATL (electronic & mechanical)
- Traction control/acceleration rate
- · ABS braking system
- Idle-up
- Tx NiCd and dual-output Charger
- · Right-/left-hand convertible

3PK Specifics

- "New Driver", "Race-Ready", "Expert" and "Big Car" menus that add functions based on driving skill level and experience
- Throttle Mode Select, for selecting acceleration/brake servo neutral points between 70/30 for nitro or 50/50 for electrics
- · Redesigned keypad with large center jog button
- · Vibrating alert system
- "Direct Select" single-button access to six preassigned functions
- Navigation Lap Timer that sounds when target lap time is exceeded
- Servo Display Screen shows set-ups/mixes for individual servos (Expert Menu)
- Throttle programming options, including 5-point curve, Expo and VTR

| Stock # | System | Modulation | Band | Tx Module | Receiver | Tx NiCd |
|-----------|-----------|------------|--------|-----------|----------|-----------------|
| FUTK2015 | 3PK FASST | FASST | 2.4GHz | FASST | R603FS | NT8F700B 700mAh |
| FUTK25** | 3PK Super | FM/PCM/HRS | 75MHz | PK-FM | R203HF | NT8F700B 700mAh |
| FUTK26** | 3PK Super | PCM | 75MHz | PK-FM | R113iP | NT8F700B 700mAh |
| FUTK2010 | 3PK Tx | FM/PCM/HRS | _ | _ | _ | NT8F700B 700mAh |
| FUTK2050+ | 3PK Syn. | FM/PCM/HRS | 27MHz | PK-FSM | R303HFS | NT8F700B 700mAh |
| FUTK2055+ | 3PK Syn. | FM/PCM/HRS | 75MHz | PK-FSM | R303FHS | NT8F700B 700mAh |







A 16K CAMPac Data Storage Module lets you store up to 8 set-ups for copying, storage or transfer to another system. Sold separately.

FUTM9405 CAMPac 8 Data Module 16K FUTM5547 FTA-17 Large Hand Grip 3PK

FUTM1468 NT8F1100B 9.6V 1100mAh NiCd Tx Battery



With the Advanced Positioning Adapter, the wheel can be dropped or rotated to achieve perfect "feel" in seconds.

Customize to your heart's content with the 3PK Transmitter Only.

Get all the 3PK's great features — plus incredible flexibility to utilize a wide variety of receivers, modules and servos to perfectly fit your specific application — when you go with the 3PK Transmitter Only option.*

*includes Tx battery pack and charger

Choose from:Eight different receivers



R122JE • R152JE • R143F • R153F R113iP • R203HF • R303FHS • R603FS

Five different modules



PKAM 27 & 75 AM • PK-FSM27 Synthesized RFPK 27 & 75 FM • PK-FSM75 Synthesized RK-FSM2.4GHz

Seventeen different servos



BLS351 • BLS451 • S9350 • S5050 • S5302 S9351 • S3010 • S5301 • S9452 • S3305 S9402 • S9550 • S3302 • S9602 • S9650 S3104 • S9405

Servo Recommendations by application for HRS (High-Response)

| Category | Steering | Throttle |
|---------------|--------------------|--------------------|
| 1/8 On-road | BLS351/S9350/S9351 | BLS451/S9350/S9351 |
| 1/8 Off-road | BLS351/S9350/S9351 | BLS451/S9350/S9351 |
| 1/10 Nitro | BLS351/S9452 | BLS451/S9350/S9351 |
| 1/10 Electric | BLS351/S9452 | ESC |
| 1/12 Electric | S9650 | ESC |
| 1/4 & 1/5 Gas | BLS351/S5050 | BLS451/S9350/S9351 |

Bring out the very best in 3PK performance with 2.4GHz spread spectrum technology!



See pages 24-25 for the 2.4GHz module and receiver that will produce an unbeatable combination of speed, precision and convenience for your 3PK system!

3VCSWITH 2.4GHz FASST SYSTEM

The 2-stick alternative for superior surface control.

If you're an R/C pilot who wants to drive cars, trucks and boats — but are apprehensive about switching to a pistol grip radio — this is the system for you. The 3VCS offers virtually everything the 3PK "wheel" system does, including the same sophisticated programming, in a familiar 2-stick layout. What's more, you'll enjoy the response, accuracy and convenience of Futaba's 2.4GHz FASST technology.

3VCS 2.4GHz Specifics:

- · HRS capability
- "New Driver", "Race-Ready" and "Expert" menus
- Adjuster feature that restores settings to factory default
- Stick position angle adjustment (+5° to -5°)
- · "Direct Select" programming shortcuts
- Traction control
- 2 "free" programmable mixes
- Sub-trim, servo reversing and EPA on all channels
- Digital trims
- Throttle start/acceleration
- Brake mixing (front/rear independent) with delay



| Stock # | System | Modulation | Band | Receiver |
|----------|------------|------------|--------|----------|
| FUTK3000 | 3VCS FASST | FASST | 2.4GHz | R603FS |

3PM

3-CHANNEL COMPUTER SYSTEMS

Everything that makes the 3PM such a great surface system - PLUS all of the advantages of spread spectrum technology!

Put the computer control of the 3PM in your hands, and be the master of your monster! Push-button programming and multi-model memory enable you to take quick set-up and instant recall for granted. A vast array of performance features and six programmable switches make it possible to fine-tune vehicle performance and control to any track condition or driving style. The 3PM-FS Pro adds extra features such as Digital Synthesizing, Auto-Detection and Fail Safe, while the 2.4GHz FASST version takes 3-channel control speed, precision and convenience to the limit! Experience off-roading as you never have before — with the 3PM.

3PM System Overview

- FM/PPM/HRS modes (27, 75MHz systems only)
- Condition selection for on-the-fly changes to steering rates
- 10-model memory
- Anti-lock Braking System (ABS) w/ adjustable return, pulse rate and delay settings
- Brake mixing for larger models
- One programmable mix
- · Steering and throttle exponential
- · Servo reversing on all channels
- Programmable throttle ATL (Adjustable Throttle-Low side only)

- · Switch/function reassignment
- Adjustable servo speed (steering)
- · Dual rates (steering)
- Up/down timer w/lap memory
- Low battery alarm
- Charge jack (for optional NiCds)
- LCD screen w/adjustable contrast
- · Wheel tension adjustment
- Includes set-up instructions for Traxxas® T-Maxx™ and HPI Racing® Savage™ trucks







R603FF

Revolutionary FASST technology is built in, and ready to deliver winning performance

R303FHS

When used with digital servos, HRS (High Response Speed) mode offers response that's three times faster than FM

2PL2-Channel Computer Systems

Available in AM and FM versions!

One-button programming, digital precision, 10-model memory – all these features help the 2PL leave all other 2-channel systems in the dust...and they're just the beginning! Other extras include a conveniently placed dual rate steering lever and simply designed menus that guide you through your set-up preferences. Use it for backyard bashing in the evening, push a button and you're set up for club races the next morning!

2PL System Overview

- 1-button programming
- 10-model memory
- · 3-character model naming
- · Easy-to-read LCD display
- Digital trims
- · Dual rates (steering)
- · End point adjustments for steering and throttle
- Anti-lock braking system (ABS)
- · Servo reversing
- · Low-battery alarm
- NiCd charging jack (NiCds optional)

2PL Specifics

- Displays battery voltage on opening screen and a low battery alarm when transmitter voltage drops below 8.5V
- Allows trim adjustments anytime, shows direction and distance from center and confirms center and setting changes with sound cues
- Offers slow, medium and fast pulse rates for ABS Braking, plus on/off option
- Includes EPA (End Point Adjustment) for limiting throttle travel, with separate settings for either side of neutral
- Steering dual rate switch is located on the grip, for easy adjustments anytime



One push brings up the opening screen; additional pushes steer you through the menu to the function you want. Just set values with the digital trims and you're ready to roll!



2PH 2-Channel Systems

Affordable and great for backyard bashing!

Weekend racers looking for a radio that doesn't sacrifice quality for value need to look no further than the 2PH. Built to last, it's perfect for any racer on a fixed budget.

| Stock # | System | Modulation | Bands | Servos | Receiver | ESC |
|----------|--------|------------|-----------|------------------------|----------|---------|
| FUTK01** | 2PL | AM | 75MHz | (1) S3003 | R152JE | _ |
| FUTK02** | 2PL | AM | 27,75MHz | (2) S3003 | R152JE | _ |
| FUTK03** | 2PL | AM | 75MHz | (1) \$3003 | R142JE | MC230CR |
| FUTK08** | 2PL | FM | 75MHz | _ | R153F | _ |
| FUTK09** | 2PL | FM | 27, 75MHz | (2) S3003 | R153F | _ |
| FUTK10** | 2PL | FM | 75MHz | (1) \$3003 | R153F | _ |
| FUTJ12** | 2PH | AM | 75MHz | (1) \$3003, (1) \$3010 | R152JE | _ |
| FUTJ13** | 2PH | AM | 75MHz | (1) \$3003 | R152JE | _ |
| FUTJ14** | 2PH | AM | 27, 75MHz | (2) S3003 | R152JE | _ |
| FUTJ15** | 2PH | AM | 27,75MHz | (1) S3003 | R152JE | MC230CR |

2PH System Overview

- Ergonomic design
- Tough composite case
- · Wide, flat base for stability and balance
- Thick wheel post and high wheel collar for a solid feel and serious damage protection
- Dial trims steering and throttle
- Servo reversing
- · Battery status LEDs
- Protective smoked panel over servo reversing switches and LEDs



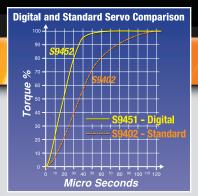
DIGITAL SERVOS

Split-Second Precision, Power & Performance

The pulse rate on Futaba digital servos is six times faster than standard servos. That means that Futaba Digital servos have already responded to input five times before a standard servo responds even once. And what that means to performance is crystal clear.

It means that a Futaba digital servo can respond almost as fast as you can think. It means that deadband is virtually non-existent — and that Futaba digital servos can hold control surfaces longer and stronger, without fading or wavering, and snap back to center with surpassing ease and absolute precision.

Premium servos for premium performance — Futaba.



Both servos shown have the same specifications - but the digital servo supplies greater torque toward the center, with more holding power and more accurate positioning.



\$3050 Standard High Torque

| Volts | Torque | Sp | peed | | | | |
|-------|-----------------------|----|--------------|-----|----|--|--|
| 4.8V | 72 oz-in | 0. |).20 sec/60° | | | | |
| 6.0V | 0.16 sec/60° | | | | | | |
| | | | | | | | |
| Dimen | sions | W | eight | ì | | | |
| | sions 0.8 x 1.5 in | | | (49 | g) | | |



S3152 High Torque

| Volts | Torque | Speed | | |
|---------|--------------|--------|------|----|
| 4.8V | 69 oz-in | 0.22 s | ec/6 | 0° |
| 6.0V | 87 oz-in | 0.18 s | ec/6 | °0 |
| Dimen | sions | Weight | | |
| 1.6 x (| 0.8 x 1.5 in | 1.4 oz | (40 | g) |
| FUTMO | 311 | | BB | 3P |

S3155 High Speed Slim

Volts Torque

S9151 Rudder

1.6 x 0.8 x 1.4 in

132 oz-in



S3153 Micro Min

S3150 Slim Wing

Volts Torque

4 8V 52 oz-in 6.0V n/a 1.2 x 0.4 x 1.1 in FUTM0303

| 00.0 | O IIIIOI O III | |
|--------|----------------|-----------------|
| Volts | Torque | Speed |
| 4.8V | 19 oz-in | 0.11 sec/60° |
| 6.0V | 24 oz-in | 0.10 sec/60° |
| Dimen | sions | Weight |
| 0.9 x | 0.4 x 0.8 in | 0.32 oz (9.6 g) |
| CUTAAC | OCEO | |

0.24 sec/60°



\$5050 High Torque 1/4 Scale

| Volts | Torque | Sp | eed | | |
|-------|--------------|-----|-------|------|------|
| 4.8V | 211 oz-in | 0.2 | 25 se | ec/6 | 0° |
| 6.0V | 264 oz-in | 0.2 | 20 se | ec/6 | 0° |
| Dimen | sions | We | ight | | |
| 2.4 x | 1.2 x 2.0 in | 4.5 | 0Z | (127 | ' g) |
| FUTMO | 255 | BB | MG | WP | СМ |



S9152 Mega High Torque

| | 3 | 9 | | | |
|---------|-------------|----|-------|------|----|
| Volts | Torque | Sp | eed | | |
| 4.8V | 222 oz-in | 0. | 23 s | ec/6 | 0° |
| 6.0V | 278 oz-in | 0. | 19 s | ec/6 | 0° |
| Dimens | sions | W | eight | | |
| 1.9 x 1 | .0 x 1.6 in | 3. | 0 oz | (85 | g) |
| FUTM0 | 212 | BB | MG | WP | CM |
| | | _ | _ | _ | _ |



| 3313 | H High Spt | cu Alicion Lo |
|-------|--------------|---------------|
| Volts | Torque | Speed |
| 4.8V | 64 oz-in | 0.14 sec/60° |
| 6.0V | n/a | n/a |
| Dimen | sions | Weight |
| 1.9 x | 1.1 x 1.0 in | 1.9 oz (53 g) |
| FUTMO |)214 | BB WP CM |



S9155 Air High Torque

| ٧ | olts | Torque | Speed | | | |
|---|--------|--------------|--------------|-------|------|-----|
| 4 | l.8V | 153 oz-in | 0. | 16 s | ec/6 | 60° |
| 6 | 6.0V | 192 oz-in | 0.13 sec/60° | | | |
| D |)imens | sions | W | eight | | |
| 1 | .6 x 0 |).8 x 1.4 in | 2. | 1 oz | (60 | g) |
| F | UTM0 | 215 | | BB | MG | WP |
| | | | | | | |



| 5925 | 1 for G | Y6(|)1/6 | iY6 | 11 (| iyro | |
|---------|---------|-------|-------|--------------|------|------|--|
| Volts | Torque | | S | peed | | | |
| 4.8V | 51 oz- | in | 0 | 0.07 sec/60° | | | |
| 6.0V | n/a | | n/a | | | | |
| Dimen | sions | | | leigh | | | |
| 1.6 x (| 2 | .0 02 | z (57 | ' g) | | | |
| FUTMO | 221 | BB | MG | WP | CM | MCC | |



S9254 Heli High Torque/High Speed

| | • | | | | • | |
|--------------------|----------|--------------|--------|-----|----|--|
| Volts | Torque | Speed | | | | |
| 4.8V | 47 oz-in | 0.06 sec/60° | | | | |
| 6.0V | n/a | n/a | | | | |
| Dimensions | | | Weight | | | |
| 1.6 x 0.8 x 1.4 in | | | 7 oz | (49 | g) | |
| FUTMO | | BB | WP | CM | | |



S9255 Heli High Torque

| Volts | Torque | Speed |
|-------|--------------|---------------|
| 4.8V | 125 oz-in | 0.16 sec/60° |
| 6.0V | n/a | n/a |
| Dimen | sions | Weight |
| 1.6 x | 0.8 x 1.4 in | 1.9 oz (56 g) |
| FUTMO | 225 | BB MG CM |
| | | |



S3151 Sport

| Volts | Torque | Speed | | | |
|-------|--------------|--------------|------|----|--|
| 4.8V | 43 oz-in | 0.21 sec/60° | | | |
| 6.0V | 54 oz-in | 0.17 s | ec/6 | 0° | |
| Dimen | sions | Weight | | | |
| 1.6 x | 0.8 x 1.4 in | 1.5 oz | (42 | g) | |
| FUTMO | | | - | 00 | |



S3154 High Torque/High Speed Micro

| Volts | Torque | Speed |
|-------|--------------|----------------|
| 4.8V | 21 oz-in | 0.10 sec/60° |
| 6.0V | 24 oz-in | 0.09 sec/60° |
| Dimen | sions | Weight |
| 0.9 x | 0.4 x 0.8 in | 0.3 oz (7.9 g) |
| FUTMO | | |



SQ150 Low-Profile Aileron

| OO TOO LOW I TOING ANDION | | | | | |
|---------------------------|--------------|---------------|--|--|--|
| Volts | Torque | Speed | | | |
| 4.8V | 81 oz-in | 0.18 sec/60° | | | |
| 6.0V | n/a | n/a | | | |
| Dimen | sions | Weight | | | |
| 1.9 x | 1.1 x 1.0 in | 1.9 oz (53 g) | | | |
| FUTMO | 0210 | BB WP CM | | | |



S9153 High Speed/High Torque

| Volts | Torque | Sp | eed | | |
|-------|--------------|----|-------|------|----|
| 4.8V | 167 oz-in | 0. | 19 s | ec/6 | 0° |
| 6.0V | 208 oz-in | 0. | 15 s | ec/6 | 0° |
| Dimen | sions | W | eight | | |
| 1.9 x | 1.0 x 1.6 in | 3. | 0 oz | (85 | g) |
| FUTMO | 1213 | DD | MG | MD | CM |



\$9156 Air High Torque -

| | Volts | Speed | | | | | |
|---|--------|---------------|--------------|-------|-----|----|--|
| | 4.8V | 272 oz-in | 0.21 sec/60° | | | | |
| | 6.0V | 340 oz-in | 0.17 sec/60° | | | | |
| | Dimens | sions | W | eight | ì | | |
| | 16 v (|).8 x 1.4 in | 2 | 2 07 | (62 | u) | |
| - | 1.0 X | J.O X 1.4 III | ۷. | 2 02 | (02 | 9/ | |

Outstanding for IMAC!



COOKS All Dure

| OJEJE Ali-i urpose | | | | | | | |
|--------------------|------------------|---------------|-----|----|----|--|--|
| Volts | Torque | Sp | eed | | | | |
| 4.8V | 92 oz-in | 0.14 sec/60° | | | 0° | | |
| 6.0V | n/a | n/a | | | | | |
| Dimen | W | eight | | | | | |
| 1.6 x (| 0.8 x 1.4 in | 1.8 oz (50 g) | | | g) | | |
| FUTMO | UTM0222 BB MG WP | | | CM | | | |



S9256 Heli High Speed for GY601/GY611 Gvro

| Volts | Torque | | S | peed | | |
|--------------------|--------|----|-----------------|------|------|------|
| 4.8V | 47 oz- | in | 0 | .06 | sec/ | 60° |
| 6.0V | n/a | | n, | /a | | |
| Dimens | sions | | Weight | | | |
| 1.6 x 0.8 x 1.4 in | | | 1 2.0 oz (57 g) | | | ' g) |
| FUTM0 | BB | MG | WP | CM | MCC | |



\$9257 High Torque Heli Rudder

| | | , | | |
|--------------------|----------|---------------|--|--|
| Volts | Torque | Speed | | |
| 4.8V | 28 oz-in | 0.08 sec/60° | | |
| 6.0V | n/a | n/a | | |
| Dimen | sions | Weight | | |
| 1.4 x 0.6 x 1.1 in | | 0.9 oz (28 g) | | |
| FUTMO | 235 | BB | | |



S9350 High Torque

| Volts | Torque | | Speed | | | | |
|----------------------------------|------------|----|--------------|--------|----|-----|--|
| 4.8V | 111 oz-in | | n 0.15 sec/6 | | | 60° | |
| 6.0V | 139 oz-in | | 0.12 sec/6 | | | 60° | |
| Dimens | Dimensions | | | Weight | | | |
| 1.6 x 0.8 x 1.4 in 2.1 oz (61 g) | | | | g) | | | |
| FUTMO | 235 | BB | MG | WP | CM | MCC | |



S9351 High Torque

| Volts | Torque | Speed | | | | |
|--------------------|-----------|-------|------------|--------------|-------|-----|
| 4.8V | 153 oz | 0 | 0.16 sec/6 | | | |
| 6.0V | 192 oz-in | | 0 | 0.13 sec/60° | | |
| Dimensions | | | W | leigh | ıt | |
| 1.6 x 0.8 x 1.4 in | | | 2 | .1 0 | z (61 | g) |
| FUTMO | 236 | BB | MG | WP | CM | MCC |



S9452 High Torque/High Speed

| Volts | Torque | Speed |
|------------|--------------|---------------|
| 4.8V | n/a | n/a |
| 6.0V | 128 oz-in | 0.11 sec/60° |
| Dimensions | | Weight |
| 1.6 x | 0.8 x 1.3 in | 1.8 oz (50 g) |
| FUTM0662 | | BB MG CM |



S9551 High Torque/Low Profile

| | 3 | | | | |
|------------------------|-----------|-------|------|------|-----|
| Volts | Torque | Sp | eed | | |
| 4.8V | 92 oz-in | 0. | 14 s | ec/6 | 0° |
| 6.0V | 136 oz-in | 0. | 12 s | ec/6 | 60° |
| Dimen | W | eight | ì | | |
| 1.6 x 0.8 x 1.0 in 1.6 | | | 6 oz | (45 | g) |
| FUTMO | ВВ | MG | СМ | WP | |



S9650 Mini

| | • | |
|-------|--------------|---------------|
| /olts | Torque | Speed |
| 4.8V | 50 oz-in | 0.14 sec/60° |
| 3.0V | 63 oz-in | 0.11 sec/60° |
| Dimen | sions | Weight |
| 1.4 x | 0.6 x 1.1 in | 1.1 oz (31 g) |
| UTMO | 260 | BB CM |

Note: For servo application chart, see page 21.

BRUSHLESS DIGITAL SERVOS

Another Futaba first - for longer servo life and better performance.

In the race for innovations that get big results, Futaba always comes first — whether bringing exceptionally precise Silicon Micro Machining (SMM) technology to gyros, developing incredibly accurate 2048 resolution, or getting maximum speed, reliability and security out of 2.4GHz radio systems. Now Futaba has done it again — by unveiling the first digital servos with the advantages of brushless technology.

- At least five times longer-lasting than brushed servos.
- 30% faster response times.
- · Greater resistance to jolts and vibration.
- · Smoother operation.

Plus. . .

- · Same power consumption as brushed digital servos.
- Same compact case size as standard servos.
- Exceptionally durable geartrain.
- · Smooth dual ball bearings and strong Samarium Cobalt magnets.



| BLS251 | BLS451 |
|-----------------------|--------|
| | |
| Car | |
| Nitro Car | • |
| EP Car | • |
| Boat | |
| EP, Nitro Boat | • |
| Yacht | • |
| Airplane | |
| Glider | • |
| EP Plane | • |
| Small Plane | • |
| Nitro Plane | • |
| Helicopter | |
| EP Helicopter | • |
| Helicopter • | • |
| Features | |
| Ball Bearings 2 2 | 2 |
| Metal Gear ★ ★ | * |
| Water Protected ◆ | • |
| Metal Center Case X X | |



| DESZST High-speed Hell huud | | | |
|-----------------------------|--------------|---------------|--|
| Volts | Torque | Speed | |
| 4.8V | 53 oz-in | 0.06 sec/60° | |
| 6.0V | n/a | n/a | |
| Dimen | sions | Weight | |
| 1.6 x | 0.8 x 1.5 in | 2.1 oz (61 g) | |
| FUTMO | 550 | 2BB MG WP MCC | |
| | | | |



| BL5351 High-Torque | | | | | |
|--------------------|--------------|----|------|-------|------|
| Volts | Torque | S | peed | | |
| 4.8V | 168 oz-in | 0 | 16 | sec/ | °06 |
| 6.0V | 208 oz-in | 0 | 12 | sec/ | °06 |
| Dimensions W | | | eigh | t | |
| 1.6 x (| 0.8 x 1.5 in | 2 | .2 0 | z (62 | 2 g) |
| FUTMO | 2BB | MG | WP | MCC | |



BLS451 High-Torque High-Speed

| Volts | Torque | Speed |
|---------|--------------|--------------|
| 4.8V | 118 oz-in | 0.13 sec/60° |
| 6.0V | 147 oz-in | 0.10 sec/60° |
| Dimens | sions | Weight |
| 1.6 x (|).8 x 1.5 in | 2 oz (58 g) |
| FUTM0 | 552 | 2BB MG WP |
| | | |

Barry Baker TQs and wins the 2007 On-Road Nats using the Futaba BLS451 — in its first major race!

Recommended

CM = Coreless Motor

3P = 3-pole Motor 5P = 5-pole Motor BB = Ball Bearing MG = Metal Gear WP = Water Protected MCC = Metal Center Case

ANALOG SERVOS

Power and speed for every R/C application

For any type of radio-controlled model, Futaba has the ideal servo. And that holds true whether the application requires a special size, specific torque, better mesh, smoother operation or faster speed. Whatever the function, there's a Futaba servo to meet it — housed in an impact- and fuel-resistant case to protect your investment.



S136G Compact Retract

| Torque | Sp | eed | | |
|--------------|----------|-----------------------------------------------|---------------------------------------------------------------------------|----------|
| 61 oz-in | 0. | 60 s | ec/6 | i0° |
| 76 oz-in | 0. | 50 s | ec/6 | i0° |
| ions | We | eight | | |
|).9 x 1.0 in | 1. | 5 oz | (42 | g) |
| 670 | | BB | WP | ЗР |
| | 61 oz-in | 61 oz-in 0.76 oz-in 0.9ions W.0.9 x 1.0 in 1. | 61 oz-in 0.60 s 76 oz-in 0.50 s sions Weight 0.9 x 1.0 in 1.5 oz | 61 oz-in |



S3002 Mini

| Volts | Torque | Speed |
|-------|--------------|---------------|
| 4.8V | 36 oz-in | 0.25 sec/60° |
| 6.0V | 46 oz-in | 0.20 sec/60° |
| Dimen | sions | Weight |
| 1.2 x | 0.6 x 1.2 in | 1.2 oz (35 g) |
| FUTMO | 0030 | 2BB MG 3P |



\$3010 High Torque

| Volts | Torque | Speed | | |
|--------------------|----------|--------|------|-----|
| 4.8V | 72 oz-in | 0.20 s | ec/6 | i0° |
| 6.0V | 90 oz-in | 0.16 s | ec/6 | 0° |
| Dimensions | | Weight | | |
| 1.6 x 0.8 x 1.5 in | | 1.4 oz | (41 | q) |
| | | | | |



S3107 Mid

| 0010 | I WIIGIO | | |
|---------|--------------|-------------|----|
| Volts | Torque | Speed | |
| 4.8V | 16.7 oz-in | 0.12 sec/6 | 0° |
| 6.0V | n/a | n/a | |
| Dimen | sions | Weight | |
| 0.9 x (| 0.4 x 0.8 in | 0.3 oz (9 g | 1) |
| FUTMO | 0025 | | 3P |



S3113 Micro Mini

| Volts | Torque | Speed |
|-------|--------------|--------------|
| 4.8V | 19 oz-in | 0.11 sec/60° |
| 6.0V | 23 oz-in | 0.09 sec/60° |
| Dimen | sions | Weight |
| 0.8 x | 0.4 x 0.7 in | 0.3 oz (9 g) |
| FUTMO |)413 | 3P |



S3115 Micro Precision

| Volts | Torque | Speed |
|---------|--------------|---------------|
| 4.8V | 39 oz-in | 0.15 sec/60° |
| 6.0V | n/a | n/a |
| Dimen | sions | Weight |
| 1.1 x (| 0.5 x 1.1 in | 0.6 oz (17 g) |
| FUTMO |)415 | 3P |



| | •g4 | , |
|-------|--------------|----------------|
| Volts | Torque | Speed |
| 4.8V | 266.5 oz-in | 0.20 sec/60° |
| 6.0V | 333 oz-in | 0.16 sec/60° |
| Dimen | sions | Weight |
| 2.6 x | 1.2 x 2.0 in | 4.5 oz (127 g) |
| FUTMO | 0020 | 2BB |
| | | _ |



S148 Precision

| Volts | Torque | Speed | |
|-------------------|--------------|--------------|----|
| 4.8V | 33 oz-in | 0.28 sec/60 | l° |
| 6.0V | 42 oz-in | 0.22 sec/60° | |
| Dimensions Weight | | | |
| 1.6 x | 0.8 x 1.4 in | 1.5 oz (42 g |) |
| FUTMO | 710 | | 3P |



S3003 Standard

| Volts | Torque | Speed |
|-------|--------------|---------------|
| 4.8V | 44 oz-in | 0.23 sec/60° |
| 6.0V | 57 oz-in | 0.19 sec/60° |
| Dimen | sions | Weight |
| 1.6 x | 0.8 x 1.4 in | 1.3 oz (37 g) |
| FUTMO | 0031 | 3P |



S3102 Aircraft Micro

| Volts | Torque | Speed | | |
|------------|--------------|---------------|--|--|
| 4.8V | 51 oz-in | 0.25 sec/60° | | |
| 6.0V | 64 oz-in | 0.20 sec/60° | | |
| Dimensions | | Weight | | |
| 1.1 x (| 0.5 x 1.2 in | 0.7 oz (21 g) | | |
| FUTMO | 034 | MG 3P | | |



S3111 Micro

|)° |
|------|
| |
| |
| i g) |
| 3P |
| |



S3114 Micro High Torque

| Volts | Torque | Speed | | | |
|---------|--------------|--------------|------|--|--|
| 4.8V | 20.8 oz-in | 0.10 sec/60 |)° | | |
| 6.0V | 23.5 oz-in | 0.09 sec/60 |)° | | |
| Dimen | sions | Weight | | | |
| 0.9 x (| 0.4 x 0.8 in | 0.27 oz (7.8 | 3 g) | | |
| FUTM0 | 414 | 11 - 1/1 - 1 | 3P | | |



| 0000E 174 00010 | | | | | |
|-------------------|-------------------------------|--------------|-------|------|------|
| Volts | Torque | Speed | | | |
| 4.8V | 89 oz-in | 0.2 | 24 se | ec/6 | 0° |
| 6.0V | 111 oz-in | 0.19 sec/60° | | | |
| Dimensions Weight | | | | | |
| 2.3 x | x 1.1 x 2.0 in 3.6 oz (103 g) | | | | 3 g) |
| FUTMO | 2BB | MG | WP | 3P | |



| Jood I High forque Jan | | | | |
|-----------------------------|--------------|-------|--------|------|
| Volts | ed | | | |
| 4.8V | 155 oz-in | 0.32 | sec/6 | 0° |
| 6.0V 194 oz-in 0.26 sec/60° | | | | 0° |
| Dimen | sions | Weig | jht - | |
| 2.3 x | 1.1 x 2.0 in | 3.7 | oz (10 | 5 g) |
| FUTMO | 038 | 2BB M | IG WP | 3P |
| | | | | |



S3001 Precision

| Volts | Townso | Cunnel | | | |
|-------|--------------|--------------|-----|----|--|
| VOILS | Torque | Speed | | | |
| 4.8V | 33 oz-in | 0.28 sec/60° | | | |
| 6.0V | 42 oz-in | 0.22 sec/60° | | | |
| Dimen | sions | Weight | | | |
| 1.6 x | 0.8 x 1.4 in | 1.6 oz | (45 | g) | |
| FUTMO | 0029 | | BB | 3P | |
| | | | | | |



S3004 Standard

| ì | Volts | Torque | Speed | | |
|---|-------|--------------|--------------------|------|----|
| | 4.8V | 44 oz-in | 0.23 s | ec/6 | 0° |
| | 6.0V | 57 oz-in | oz-in 0.19 sec/60° | | |
| | Dimen | sions | Weight | | |
| | 1.6 x | 0.8 x 1.4 in | 1.3 oz | (37 | g) |
| | FUTMO | 0004 | / | BB | 3P |



S3104 1/4 Scale

| - | , | _ | | | |
|---------------------------------|-----------|-------|-------|------|----|
| Volts | Torque | Sp | eed | | |
| 4.8V | 128 oz-in | 0. | 21 s | ec/6 | 0° |
| 6.0V | n/a | n/ | a | | |
| Dimen | W | eight | | | |
| 2.3 x 1.1 x 2.0 in 3.3 oz (93.5 | | | .5 g) | | |
| FUTMO | 036 | | BB | WP | ЗР |



S3111M Micro w/Micro Plug

| Volts | Torque | Speed | |
|-------|--------------|----------------|----|
| 4.8V | 8.3 oz-in | 0.12 sec/60° | |
| 6.0V | n/a | n/a | |
| Dimen | sions | Weight | |
| 0.9 x | 0.4 x 0.8 in | 0.22 oz (6.6 g | J) |
| FUTMO | 703 | 3 | P |



S3114 Micro High Torque w/Micro Plug

| Volts | Torque | Speed | |
|---------|--------------|----------------|----|
| 4.8V | 19 oz-in | 0.11 sec/60° | |
| 6.0V | 23 oz-in | 0.09 sec/60° | |
| Dimens | sions | Weight | |
| 0.9 x (| 0.4 x 0.8 in | 0.3 oz (7.8 g) |) |
| FUTM0 | 704 | J / : | 3P |



\$3305 Standard High Torque

| Volts | Torque | Speed |
|---------------|--------------|---------------|
| 4.8V | 99 oz-in | 0.25 sec/60° |
| 6.0V | 124 oz-in | 0.20 sec/60° |
| Dimen | sions | Weight |
| 1.6 x | 0.8 x 1.5 in | 1.6 oz (47 g) |
| FUTM (| 045 | 2BB MG 3P |
| | | |



S3802 Standard Sail

| Volts | Torque | Sp | eed | | |
|-------|--------------|-----|-------|------|----|
| 4.8V | 122 oz-in | 0.7 | 70 se | ec/6 | 0° |
| 6.0V | 153 oz-in | 0.5 | 6 s | ec/6 | 0° |
| Dimen | sions | We | ight | | |
| 1.8 x | 1.0 x 1.7 in | 2.5 | 0Z | (71 | g) |
| FUTMO | 0039 | 2BB | MG | WP | 3P |



| 0000 | 1 1/4 Juai | C III | yıı | IUIC | luc |
|-------|--------------|-------|-------|------|------|
| Volts | Torque | Sp | eed | | |
| 4.8V | 233 oz-in | 0. | 28 s | ec/6 | :0° |
| 6.0V | 292 oz-in | 0. | 23 s | ec/6 | 0° |
| Dimen | sions | We | eight | | |
| 2.3 x | 1.1 x 2.0 in | 4. | 4 oz | (12 | 5 g) |
| FUTMO | 0051 | 2BB | MG | WP | 5P |



| 33302 nigii speeu 1/4 scale | | | | |
|-----------------------------|--------------|----------------|--|--|
| Volts | Torque | Speed | | |
| 4.8V | 189 oz-in | 0.18 sec/60° | | |
| 6.0V | 236 oz-in | 0.15 sec/60° | | |
| Dimen | sions | Weight | | |
| 2.3 x | 1.1 x 2.0 in | 4.4 oz (125 g) | | |
| FUTMO | 052 | 2BB MG WP 5P | | |
| | | | | |



S5801 Sail Winch

| Volts | Torque | Speed |
|--------------------|--------------|---------------|
| 6.0V | n/a | n/a |
| 7.2V | 109 oz-in | 0.60 sec/60° |
| Dimen: | sions | Weight |
| 1.8 x ⁻ | 1.0 x 1.8 in | 2.9 oz (82 g) |
| FUTMO | 099 | 2BB MG WP 5P |



S9001 Aircraft

| Volts | Torque | Speed | | |
|-------|--------------|--------|------|----|
| 4.8V | 54 oz-in | 0.22 s | ec/6 | 0° |
| 6.0V | 72 oz-in | 0.18 s | ec/6 | 0° |
| Dimen | sions | Weight | | |
| 1.6 x | 0.8 x 1.4 in | 1.7 oz | (48 | g) |
| FUTMO | 075 | | ВВ | СМ |



\$9102 Aile

| 0010 | Z Allololl | | |
|-------|--------------|-----------|-------|
| Volts | Torque | Speed | |
| 4.8V | 40 oz-in | 0.16 sec | :/60° |
| 6.0V | 50 oz-in | 0.13 sec | :/60° |
| Dimen | sions | Weight | |
| 1.8 x | 0.9 x 1.0 in | 1.6 oz (4 | l6 g) |
| FUTMO | 0087 | 2E | BB CM |



S9202 Aircraft

| Volts | Torque | Sp | eed | | |
|---------|--------------|----|-------|------|----|
| 4.8V | 56 oz-in | 0. | 27 s | ec/6 | 0° |
| 6.0V | 69 oz-in | 0. | 22 s | ec/6 | 0° |
| Dimen | sions | W | eight | | |
| 1.6 x (| 0.8 x 1.4 in | 1. | 8 oz | (50 | g) |
| FUTMO | 090 | / | 2BB | WP | СМ |



| OULU | O HOM/AII P | ,iuii | , ,,,, | gu | 1010 |
|---------|--------------|-------|--------|------|------|
| Volts | Torque | Sp | eed | | |
| 4.8V | 132 oz-in | 0. | 19 s | ec/6 | 60° |
| 6.0V | n/a | n/ | a | | |
| Dimen | sions | We | eight | | |
| 1.6 x (|).8 x 1.5 in | 1. | 9 oz | (53 | g) |
| FUTMO | 115 | 2BB | MG | WP | CM |



S9402 High Speed

| | 3 - 1 | |
|-------|--------------|---------------|
| Volts | Torque | Speed |
| 4.8V | 89 oz-in | 0.12 sec/60° |
| 6.0V | 111 oz-in | 0.10 sec/60° |
| Dimen | sions | Weight |
| 1.6 x | 0.8 x 1.5 in | 1.9 oz (50 g) |
| FUTM0 | 102 | 2BB MG WP CM |



S9405 High Torque

| Volts | Torque | Speed |
|---------|---------------------------|---------------|
| 4.8V | 80 oz-in | 0.13 sec/60° |
| 6.0V | 100 oz-in | 0.11 sec/60° |
| Dimen | sions | Weight |
| 1.6 x (| 0.8 x 1.5 in | 1.9 oz (50 g) |
| FUTMO | 098 | 2BB MG |
| | 6.0V Dimen: 1.6 x (| 4.8V 80 oz-in |



S9602 High Speed Mini Aircraft

| Volts | Torque | Speed |
|---------|--------------|---------------|
| 4.8V | 30 oz-in | 0.11 sec/60° |
| 6.0V | 38 oz-in | 0.09 sec/60° |
| Dimen | sions | Weight |
| 1.4 x (| 0.6 x 1.2 in | 1.2 oz (35 g) |
| FUTMO | 107 | 2BB MG CM |

| | | 7/ | | | V. | | | | | | | | -// | | / | | | | | | | Y | | / | | | | ς. | | | -// | | / | | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|----------|-------|----------|-------|-------|----------|-------|----------|----------------|-------|----------|-------|----------|----------|-------|-------|----------|-------|-------|-------|-------|----------|----------------|
| | | | | | S | MA | LL | | | | | | | | | | | | | | | | | | S | TAN | DAR | D | | | | | | | | | | | | | | | | LA | RGE | | | |
| | S3002 | S3102 | S3107 | S3111/M | S3114/M | S3115 | S3150 | S3153 | S3154 | S3155 | 29602 | 29030 C136G | S148 | S3001 | S3003 | S3004 | S3010 | S3050 | S3151 | S3152 | S3305 | 53802 | 20102 | S9102 | S9151 | S9154 | S9155 | S9156 | S9202 | 59200 | S9251 | S9252 | S9254 | S9255 C0256 | S9350 | S9351 | S9402 | S9405 | S9452 | S9551 | S3104 | S3302 | 53306 | S5050 | S5301 | S5302 | S5801 | S9152 S9153 |
| Car | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mini Car | | | • | | | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nitro Car | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • | | | | | | | | | | • | • | • | | |
| EP Car | | | | | | | | | | | | | • | • | • | • | • | | | • | | | | | | | | | | | | | | • | | | | | | | | | | | | | | |
| Boat | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP, Nitro Boat | | | | | | | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | • | | | | | • | | | | | | | | • | • | • | • | • | | |
| Yacht | | | | | | | | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | • | | | | | | Į | | | | | | | | | | | | | |
| Airplane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glider | | | | | | | | | | | | | • | • | | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP Plane | • | • | • | | | | • | | | • | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Small Plane | • | • | | 1 | | | | • | | | | | • | • | | • | • | | | | | | | | • | | • | | • | | • | • | | | | | | | | | | | | | | | | |
| Nitro Plane | | | | | | | | | | | | | • | • | • | • | • | • | • | | | | | Į | Į | | | | • I | Į | П | • | | • | • | • | • | • | | | • | • | • | • | • | • | ı | ш |
| Helicopter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP Helicopter | • | • | • | • | • | • | | • | | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | |
| Helicopter | | | | | | | | | | | | | | • | | | • | • | • | 9 | | | | | • | | • | | Щ | Ę | П | П | | | | • | | | | | | | | | | | | |
| Features | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ball Bearings | 2 | | | | | | 2 | 1 | | 2 | 2 : | 2 2 | | 1 | | 1 | 1 | 2 | 1 | 1 | 2 | 2 1 | 2 | 2 2 | 2 | 2 | 2 | 2 | 2 | 2 2 | 2 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 : | 2 2 | 2 2 | 2 | 2 | 2 | 2 2 |
| Metal Gear | * | * | | | | | * | * | | * | * | | | | | Ų | | * | | | * | * | | | | | * | * | 7 | * * | * * | | | * | * | * | * | * | * | * | | * | + | * | * | * | * 1 | * * |
| Water Protected | | | | | | | | | | | | 4 | | | | | | | | | | • | 4 | • | • | ♦ | • | ♦ | • | • 4 | + | • | • | • | • | ♦ | • | ♦ | ♦ | • | • | ♦ | 4 | • | • | • | ♦ | + + |
| Motor Type | 3P | 3P | 3P 3 | BP 3F | 3P | 3P | 3P | 3P | 3P | 3P | CM C | M 3I | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P : | 3P 3 | BP C | M CI | M CN | /I CM | CM | CM | СМ | CM C | M CI | M CN | CM | CM | CM CI | / CN | СМ | CM | CM | CM | CM | 3P | 3P | 3 | P 5F | 5P | 5P | 5P C | M CM |

■ = Recommended

• = Compatible CM = Coreless Motor 3P = 3-pole Motor 5P = 5-pole Motor BB = Ball Bearing MG = Metal Gear WP = Water Protected

SERVO ACCESSORIES

| | NYLON S | SERVO HORNS |
|----------|------------|-------------------------------|
| Stock # | Part # | Style/Application |
| FUTM1835 | FSH-6H | Horn H - S3801 |
| FUTM1980 | FSH-6E | Horn E - Long Arm S28/48 |
| FUTM1985 | FSH-6F | Horn F - Small X Spline |
| FUTM2000 | FSH-6R | Horn C – Disc S28/48 |
| FUTM2005 | FSH-63 | Horn - S3103/3107 (4) |
| FUTM2010 | FHS-6S | Horn B – Star S28/48 |
| FUTM2011 | FSH-6T | Horn – T-Shape Car |
| FUTM2020 | FSH-6W | Horn D – Wheel S28/48 |
| FUTM2030 | FSH-6X | Horn A – X S28/48 |
| FUTM2035 | FSH-6G | Horn G - Disc S34/134/134G |
| FUTM2036 | FSH-7W | Horn W - Wheel Large (4) |
| FUTM2038 | 1M11K12801 | Mini Servo Horn A |
| FUTM2042 | FSH-9152 | Servo Horns S9152/9153 |
| FUTM2045 | FSH-5801 | Horn – Sail Winch Drum S5801 |
| FUTM2258 | FSH-38 | Sail Servo Arm – S3801/125 |
| FUTM2350 | FSH-3103 | Accessory Package S3103/3107 |
| FUTM2360 | FSH-9150 | Accessory Pack S9150 |
| FUTM3550 | FSH-42 | Accy. Pkg. S28/30/32/48/9301 |
| FUTM3551 | FSH-50 | Accessory Package S3003 |
| FUTM4510 | FSH-60 | Sub Micro Horn Std S3108 (3) |
| FUTM4511 | FSH-61 | Sub Micro Horn Long S3108 (3) |



| | ALUI | MINUM SERVO HORNS |
|----------|----------|--------------------------------|
| Stock # | Part # | Style/Application |
| FUTM2050 | FSH-59 | Adjustable Servo Horn |
| FUTM2100 | FSH-TD3S | 2" Double Horn - Silver |
| FUTM2105 | FSH-TD2S | 1.5" Double Horn - Silver |
| FUTM2110 | FSH-TD1S | 1" Double Horn - Silver |
| FUTM2115 | FSH-T2S | 1.5" Single Horn - Silver |
| FUTM2117 | FSH-T2R | 1.5" Single Horn - Red |
| FUTM2118 | FSH-T2B | 1.5" Single Horn - Blue |
| FUTM2120 | FSH-T1S | 1" Single Horn - Silver |
| FUTM2122 | FSH-T1R | 1" Single Horn - Red |
| FUTM2123 | FSH-T1B | 1" Single Horn - Blue |
| FUTM2125 | FSH-TD4S | 20 mm Double Thin Arm - Silver |
| FUTM2127 | FSH-TD4R | 20 mm Double Thin Arm - Red |
| FUTM2128 | FSH-TD4B | 20 mm Double Thin Arm - Blue |
| FUTM2130 | FSH-T4S | 20 mm Single Thin Arm – Silver |
| FUTM2132 | FSH-T4R | 20 mm Single Thin Arm - Red |
| FUTM2133 | FSH-T4B | 20 mm Single Thin Arm – Blue |



| | SERVO HORN GAUGES | |
|----------|-----------------------------|--|
| FUTM2400 | Horn Drill Gauge 12.5-15 mm | |
| FUTM2401 | Horn Drill Gauge 9.5-12 mm | |

| | S | ERVO SCREWS |
|----------|--------|----------------------------------|
| Stock # | Part # | Style/Application |
| FUTM2040 | FSH-11 | Horn Screws & Washers (10) |
| FUTM2250 | FSH-32 | Mounting Screws & Washers (10) |
| FUTM2260 | FSH-41 | Horn Screw - 28/29/30/31/32 (10) |
| FUTM2265 | FSH-49 | Horn Screw for Metal Gear (10) |
| FUTM2270 | FSH-44 | Horn Screw S33 (10) |
| FUTM2275 | FSH-55 | Horn Screw S3103 (10) |
| FUTM2280 | FSH-51 | Self Tap Screw M2.6X10 (10) |
| FUTM2285 | FSH-52 | Horn Screw M2X6 S125 (10) |
| FUTM2290 | FSH-53 | Self Tap Screw M3X8 S9150 (10) |
| FUTM2291 | FSH-62 | Horn Screw 3x6 (10) |
| FUTM2295 | FSH-57 | Horn Screw S9550 (10) |

| | SE | RVO GROMMETS |
|----------|--------|---------------------------|
| FUTM2310 | FSH-10 | Grommets Round (20) |
| FUTM2320 | FSH-20 | Grommets Square (20) |
| FUTM2340 | FSH-40 | Grommets Rectangular (20) |
| FUTM2345 | FSH-54 | Grommets S9150 (10) |
| FUTM2346 | FSH-46 | Grommets S134/3302 (20) |
| FUTM2347 | FSH-47 | Eyelets S134/3302 (20) |
| FUTM2348 | FSH-48 | Grommets Split (20) |
| FUTM3650 | FSH-21 | Eyelets – Brass (20) |

| SERVO TRAYS | | | | | | | | | | |
|-------------|--------|--------------------------------|--|--|--|--|--|--|--|--|
| Stock # | Part # | Style/Application | | | | | | | | |
| FUTM2670 | FST28T | Standard Tray 2+ S/48/148/3003 | | | | | | | | |
| FUTM2680 | FST28V | Single Vertical Tray S148/3003 | | | | | | | | |
| | | | | | | | | | | |



| | CA | SE SETS | GE | AR SETS | HORN SCREW | | | | |
|----------------|----------------------|--------------|----------|----------|------------|----------|--|--|--|
| Servo | Case Set | Stock # | Gear Set | Stock # | _ | Stock # | | | |
| BLS251 | UBS-251 | n/a | FGS-9251 | FUTM3443 | n/a | n/a | | | |
| BLS351 | n/a | n/a | n/a | n/a | n/a | n/a | | | |
| BLS451 | FCSH-51 | n/a | FGS-451 | n/a | n/a | n/a | | | |
| S36G/136G | FCS-36G | FUTM2990 | FGS-36G | FUTM3397 | FSH-51 | FUTM2280 | | | |
| S48/148 | UBS-48 | FUTM2999 | FGS-48 | FUTM3400 | FSH-41 | FUTM2260 | | | |
| S3001 | UBS-3001 | FUTM2946 | FGS-48 | FUTM3400 | FSH-41 | FUTM2260 | | | |
| S3002 | FCS-3002 | FUTM2935 | FGS-3002 | FUTM3415 | FSH-49 | FUTM2265 | | | |
| S3003 | UBS-3003 | FUTM2939 | FGS-3003 | FUTM3416 | FSH-41 | FUTM2260 | | | |
| S3004 | UBS-3004 | FUTM2942 | FGS-3003 | FUTM3416 | FSH-41 | FUTM2260 | | | |
| S3010 | FCS-3010 | FUTM2948 | FGS-3010 | FUTM3328 | FSH-41 | FUTM2260 | | | |
| S3050 | FCS-3010 | FUTM2948 | FGS-3050 | FUTM3450 | FSH-57 | FUTM2295 | | | |
| S3102 | FCS-3101 | FUTM3050 | FGS-3102 | FUTM3435 | FSH-49 | FUTM2265 | | | |
| S3104 | FCS-34 | FUTM2980 | FGS-3104 | FUTM3352 | FSH-41 | FUTM2260 | | | |
| S3107 | n/a | n/a | FGS-3107 | FUTM3358 | FSH-55 | FUTM2275 | | | |
| S3111/M | FCS-3110 | FUTM2952 | FGS-3111 | FUTM3466 | FSH-60 | FUTM4510 | | | |
| S3113 | FCS-3113 | n/a | FGS-3113 | n/a | n/a | n/a | | | |
| S3114/M | FCS-3114 | FUTM3001 | FGS-3114 | FUTM3467 | n/a | n/a | | | |
| S3115 | FCS-3115 | n/a | FGS-3103 | FUTM3404 | n/a | n/a | | | |
| S3150 | FCS-3150 | FUTM3073 | FGS-3150 | FUTM3451 | FSH-62 | FUTM2291 | | | |
| S3151 | UBS-3001 | FUTM2946 | FGS-48 | FUTM3400 | FSH-41 | FUTM2260 | | | |
| S3152 | FCS-3010 | FUTM2948 | FGS-3010 | FUTM3328 | FSH-41 | FUTM2250 | | | |
| S3153 | FCS-3153 | FUTM3074 | FGS-3153 | FUTM3329 | n/a | n/a | | | |
| S3154 | FCS-3114 | FUTM3001 | FGS-3154 | FUTM3467 | n/a | n/a | | | |
| S3155 | FCS-3150 | FUTM3073 | FGS-3155 | FUTM3331 | n/a | n/a | | | |
| S3302 | FCS-34 | FUTM2980 | FGS-3302 | FUTM3410 | FSH-49 | FUTM2265 | | | |
| S3305 | FCS-3010 | FUTM2948 | FGS-3305 | FUTM3384 | FSH-57 | FUTM2295 | | | |
| S3306 | FCS-3306 | FUTM3002 | FGS-3306 | FUTM3412 | n/a | n/a | | | |
| S3801 | FCS-34 | FUTM2980 | FGS-3303 | FUTM3411 | FSH-49 | FUTM2265 | | | |
| S3802 | FCS-3802 | FUTM2976 | FGS-3802 | FUTM3398 | FSH-49 | FUTM2265 | | | |
| S5050 | FCS-34 | FUTM2980 | FGS-5050 | FUTM3449 | FSH-57 | FUTM2295 | | | |
| S5301 | FCS-34 | FUTM2980 | FGS-5301 | FUTM3446 | FSH-49 | FUTM2265 | | | |
| S5302 | FCS-34 | FUTM2980 | FGS-5302 | FUTM3448 | FSH-49 | FUTM2265 | | | |
| S5801 | FCS-5801 | FUTM3010 | FGS-5801 | FUTM3403 | FSH-49 | FUTM2265 | | | |
| S9001 | FCS-9001 | FUTM3055 | FGS-48 | FUTM3400 | FSH-41 | FUTM2260 | | | |
| S9102 | FCS-9102 | FUTM3000 | FGS-9102 | FUTM3407 | FSH-51 | FUTM2280 | | | |
| S9150 | FCS-9150 | FUTM3066 | FGS-9150 | FUTM3441 | FSH-53 | FUTM2290 | | | |
| S9151 | FCS-9151 | FUTM3057 | FGS-9151 | FUTM3442 | FSH-41 | FUTM2260 | | | |
| S9152 | FCS-9152 | FUTM3071 | FGS-9152 | FUTM3452 | n/a | n/a | | | |
| S9153 | FCS-9152 | FUTM3071 | FGS-9153 | FUTM3453 | n/a | n/a | | | |
| S9154 | FCS-9150 | FUTM3066 | FGS-9154 | FUTM3454 | FSH-53 | FUTM2290 | | | |
| S9155 | FCS-9150 FCS-9351 | FUTM3025 | FGS-9351 | FUTM3454 | FSH-53 | FUTM2290 | | | |
| S9156 | FCS-9156 | FUTM3059 | FGS-9156 | FUTM3456 | n/a | n/a | | | |
| S9202 | FCS-9202 | FUTM3020 | FGS-31S | FUTM3340 | FSH-51 | FUTM2280 | | | |
| S9202 S9206 | FCS-9202 | FUTM3067 | FGS-9206 | FUTM3447 | FSH-49 | FUTM2265 | | | |
| S9250 | FCS-9203 | FUTM3067 | FGS-9200 | FUTM3433 | FSH-49 | FUTM2265 | | | |
| S9250 | FCS-9203 FCS-9251 | FUTM3068 | FGS-9251 | FUTM3443 | FSH-49 | FUTM2265 | | | |
| | | | | | | | | | |
| S9252 | FCS-9151 | FUTM3057 | FGS-9252 | FUTM3444 | FSH-41 | FUTM2260 | | | |
| S9254 | FCS-9151 | FUTM3057 | FGS-9253 | FUTM3445 | FSH-41 | FUTM2260 | | | |
| S9255 | FCS-9255 | FUTM3030 | FGS-9255 | FUTM3463 | FSH-49 | FUTM2265 | | | |
| S9256 | FCS-9256 | FUTM3064 | FGS-9251 | FUMT3443 | FSH-49 | FUTM2265 | | | |
| S9257 | FCS-9257 | FUTM3063 | FGS-9257 | FUTM3464 | n/a | n/a | | | |
| S9350 | FCS-9350 | FUTM3005 | FGS-9350 | FUTM3434 | FSH-57 | FUTM2295 | | | |
| S9351 | FCS-9351 | FUTM3025 | FGS-9351 | FUTM3460 | FSH-57 | FUTM2295 | | | |
| S9402 | FCS-9203 | FUTM3067 | FGS-9402 | FUTM3430 | FSH-49 | FUTM2265 | | | |
| S9405 | FCS-9203 | FUTM3067 | FGS-9402 | FUTM3430 | FSH-49 | FUTM2265 | | | |
| S9452 | FCS-9451 | FUTM3069 | FGS-9451 | FUTM3432 | n/a | n/a | | | |
| S9550 | FCS-9550 | FUTM3015 | FGS-9550 | FUTM3439 | FSH-57 | FUTM2295 | | | |
| S9602 | FCS-9602 | FUTM3065 | FGS-9602 | FUTM3437 | FSH-49 | FUTM2265 | | | |
| S9650 | FCS-9650 | FUTM3431 | FGS-9650 | FUTM3080 | FSH-41 | FUTM2260 | | | |
| | - | EDVO CONNECT | TORC | | | | | | |

| | Stock # | Part # | Style | /Application | | Length | |
|---|-----------------|--------|-------------|---------------------|------------------|--------|-----------------|
| | FUTM3720 | FPC8J | J-Type | Female Connector | | 12 in | |
| | FUTM3730 | FPC8M | J-Type | Servo Male Connec | tor | 12 in | |
| | FUTM3740 | FPC8MF | J-Type | Servo/NiCd Male C | onnectors | 12 in | |
| | FUTM3810 | FPC3MF | G-Type | e Male/Female Servo | Connectors | 6 in | |
| ı | FUTM3820 | FPC8F | J-Type | NiCd Male Connect | or | 3 in | |
| | FPC8J J-Type | FP(| C8M Type | FPC8MF J-Type | FPC3MF G-Type | | FPC8F J-Type |

WIRE ACCESSORIES

DSC Cords

With a Direct Servo Control (DSC) cord, you can test servo response without sending a signal — great for last-minute adjustments in the pits.

| Stock # | Part # | Description |
|----------|--------|-----------------------------|
| FUTM4243 | NCC9 | On Board DSC/Charge Adapter |
| FUTM4244 | NCC12 | DSC Cord 9C/CS/12Z/FG/14MZ |
| FUTM4245 | NCC10 | DSC Cord 3PB/3PK |
| FUTM4250 | NCC11 | DSC Cord 3UC/9Z |

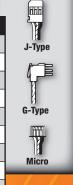


Extensions

Ready-made answers to too-short wiring — G and J plug versions ensure connector compatibility.



| Stock # | Part # | Description | Length |
|----------|--------|---------------------------------|--------|
| FUTM3900 | AEC1 | Servo Extension G-Type | 9 in |
| FUTM3909 | AEC27 | Servo Extension J-Type | 3 in |
| FUTM3910 | AEC3 | Servo Extension J-Type | 6 in |
| FUTM3955 | AEC11 | Servo Extension J-Type | 16 in |
| FUTM4110 | AEC9 | Servo Adapter J-Type to G-Type | 6 in |
| FUTM4120 | AEC10 | Servo Adapter G-Type to J-Type | 6 in |
| FUTM4125 | AEC12 | Servo Extension J-Type | 39 in |
| FUTM4130 | AEC13 | Dual Servo Extension J-Type | 6 in |
| FUTM4149 | AEC19 | Servo Extension w/Filter J-Type | 8 in |
| FUTM4504 | AEC29 | Micro Plug Y-Harness | 3 in |
| FUTM4506 | AEC25 | Servo Extension Std Plug | 6 in |
| FUTM4507 | AEC26 | Servo Extension Std Plug | 12 in |
| FUTM4508 | AEC23 | Servo Extension Micro Plug | 8 in |
| FUTM4509 | AEC28 | Servo Extension Micro Plug | 3 in |



FUTM4147

Switch Harnesses

All include receiver on/off switch factory pre-wired to leads and connectors.









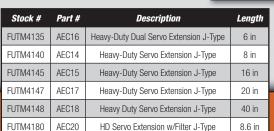


| | Stock # | Part # | Description |
|---|----------|--------|----------------------------|
| | FUTM4350 | SWH7 | Mini J FM |
| | FUTM4360 | SWH8 | Mini G w/Charge Cord |
| | FUTM4370 | SWH13 | Mini J w/Charge Cord |
| | FUTM4382 | SWH12 | Mini J w/BEC Connector |
| | FUTM4385 | SWH14 | Heavy-Duty J w/Charge Cord |
| ı | FUTM4505 | SWH15 | Ultra Mini J |
| | FUTM4387 | SWH16 | Switch Harness 14MZ |



Heavy Duty Extensions

Heavier, 20-gauge wire handles higher current loads with ease.





| I | Stock # | Part # | Description | Length |
|---|----------|--------|-------------------------|--------|
| ı | FUTM4221 | NCC13 | Tx Charge Cord | 60 in |
| ı | FUTM4231 | NCC14 | Rx Charge Cord | 60 in |
| | FUTM4235 | NCC16 | CR2500 Charge Cord 14MZ | 30 in |
| | FUTM4236 | NCC17 | CR2000 Charge Cord 12FG | _ |



FASST RECEIVERS & TRANSMITTER MODULES

Retrofit your current Futaba systems for FASST results!

In addition to complete 2.4GHz systems, Futaba offers separate 2.4GHz FASST modules, receivers, and module/receiver sets for upgrading earlier Futaba radios.

These components let you take advantage of the benefits available from spread spectrum technology — described on pages 2 and 3 — without investing in a new transmitter. Just plug them into the Futaba radios you already own!

- Designed for a superior fit with Futaba equipment

 — no external wires or cables to get in your way or
 become disconnected
- Antenna is built into the module and pivots to maximize your RF link
- Include an easy fail-safe set-up and Futaba's pushbutton Easy Link™ receiver-to-transmitter binding
- All-in-one, state-of-the-art receivers small, powerful R607FS for flight systems can control giant-scale models as easily as park flyers!



2.4GHz MODULE/RECEIVER SETS

3PK Set

- · Auto-selects HRS or PPM modulation
- R603FS receiver includes Dual Antenna Diversity (DAD) for reliable signal reception

FUTL8926 3PK Module/Receiver Set



8-Channel Set

• Works with 7U, 8U, 9C and 9Z systems

FUTL8952 8-Channel Module/Receiver Set



7-Channel Set

• Fits 7U. 8U. 9C and 9Z systems

FUTL8950 7-Channel Module/Receiver Set



14-Channel Set

- Fits the 12FG, 12Z, and 14MZ
- Only Futaba allows for the use of all 14 channels!

FUTL8956 14-Channel Module/Receiver Set



2.4GHz MODULES

Simple, plug-in installation - no transmitter modification required.

For 7U, 8U, 9C and 9Z Systems:

TM-7 7-Channel FASST Module **FUTL8927**

Recommended Receiver: R607FS



For 7U, 8U, 9C and 9Z Systems:

TM-8 8-Channel FASST Module **FUTL8928**

Recommended Receiver: R608FS



FUTL8934

Recommended Receiver: R6014FS



2.4GHz RECEIVERS

R603FF 3-Channel Receiver

Dimensions: 1.5 x 1 x 0.55 in (39 x 26 x 14 mm)

Weight: 0.45 oz (13 q)

FUTL7631



R606FS 6-Channel Receiver

Dimensions: 1.6 x 1.1 x 0.35 in (40 x 27 x 9 mm)

Weight w/Case: 0.35 oz (10 g)

Weight w/o Case: 0.25 oz (7 a)

FIITI 7635



R608FS 8-Channel Receiver

Dimensions: 1.8 x 0.9 x 0.5 in (45 x 22 x 14 mm)

Weight: N/A

FUTL7638



Weight w/ Case: 0.35 oz (10 g)

R607FS 7-Channel Receiver

R603FS 3-Channel Receiver

Dimensions: 1.5 x 1 x 0.55 in (39 x 26 x 14 mm)

Dimensions: 1.6 x 1.1 x 0.35 in (40 x 27 x 9 mm)

Weight: 0.5 oz (14g)

FUTL7630

Weight w/o Case: 0.25 oz (7 g)

FUTL7637



R6014FS 14-Channel Receiver

Dimension: 1.5 x 2.0 x 0.6 in (38 x 52 x 16 mm)

Weight: 1.13 oz (32 g)

FUTL7644



| | | MODULES | |
|-------------|------|---------|-------|
| TRANSMITTER | TM-7 | TM-8 | TM-14 |
| 7U | Х | Х | |
| 80 | Х | Х | |
| 9C | Х | Х | |
| 9Z | Х | Х | |
| 12FG | | | х |
| 12Z | | | х |
| 14MZ | | | Х |

| | | Comment of the contract of | | | | |
|-------------|--------|----------------------------|--------|--------|--------|---------|
| TRANCIMITER | | | RECE | IVERS | | |
| TRANSMITTER | R603FF | R603FS | R606FS | R607FS | R608FS | R6014FS |
| 3PM 2.4GHz | х | х | | | | |
| 3PK 2.4GHz | Х | Х | | | | |
| 3VCS 2.4GHz | Х | х | | | | |
| 6EX 2.4GHz | | | Х | Х | | |
| 7C 2.4GHz | | | Х | Х | | |
| 7U 2.4GHz | | | | Х | Х | Х |
| 8U 2.4GHz | | | | Х | Х | Х |
| 9C 2.4GHz | | | | Х | Х | Х |
| 9Z 2.4GHz | | | | Х | Х | Х |
| 12FG 2.4GHz | | | Х | Х | Х | Х |
| 12Z 2.4GHz | | | Х | х | Х | Х |
| 14MZ 2.4GHz | | | Х | Х | Х | Х |

RECEIVERS & CRYSTALS

Receivers

Futaba's up-to-the-minute materials and advanced manufacturing methods make Futaba receivers what they are today: ultra-lightweight, incredibly durable and utterly reliable

Stock #

Weight

FM/PCM/HRS

Stock # Xtal #

Stock # Xtal # FUTL0641

FUTL62 FUTL63**

FUTI 7619 n/a FUTI 7620 n/a Weight

0.5 oz

FUTI 0205 FUTI 49**

FUTL0206 FUTL49**

Antenna

R152JE - 2-Channel AM

27 MHz

75 MHz

27 MHz

.5 x 1.0 x 0.6 in

(38 x 26 x 15 mm) (14 g)

(40 x 27 x 15 mm) (17 g)



2-Channel AM w/BEC

| Band | Stock # | Xtal # |
|--------------------|----------|----------|
| 27MHz | FUTL0100 | FUTL46** |
| 72 MHz Low | FUTL0102 | FUTL47** |
| 72 MHz High | FUTL0103 | FUTL48** |
| 75 MHz | FUTL0104 | FUTL49** |
| Dimensions | Weight | Antenna |
| 1.9 x 1.3 x 0.7 in | 0.66 oz | 39 in |
| (48 x 33 x 18 mm) | (19 g) | (990 mm) |
| | | |



R153F

| Band | Stock # | Xtal # |
|--------------------|----------|----------|
| 27 MHz | FUTL0360 | FUTL95** |
| 75 MHz | FUTL0364 | FUTL64** |
| Dimensions | Weight | Antenna |
| 1.5 x 1.0 x 0.6 in | 0.5 oz | n/a |
| (38 x 26 x 14 mm) | (14 g) | n/a |



R146IP — 6-Channel PCM Micro

| Band | Stock # | Xtal # |
|----------------------------------|------------------|----------------------|
| 72 MHz | FUTL0601 | FUTL62** FUTL63** |
| | | |
| Dimensions | Weight | Antenna |
| Dimensions 1.7 x 1.1 x 0.5 in | Weight 0.5 oz | Antenna 27 in |



| 11100DI — 0-0 | Hailliei Fiv | 1 |
|--------------------|--------------|----------|
| Band | Stock # | Xtal # |
| 27 MHz | FUTL0831 | FUTL56** |
| 72 MHz | FUTL0832 | FUTL57** |
| | | FUTL58** |
| 75 MHz | FUTL0833 | FUTL59** |
| Dimensions | Weight | Antenna |
| 1.1 x 1.2 x 0.8 in | 1.0 oz | n/a |
| (29 x 56 x 20 mm) | (28 g) | n/a |

crystal and a receiver crystal

one standard size crystal

· Sets include both a standard-size transmitter

· Receiver Crystals include either one short or



1.33 x 0.8 x 0.5 in 0.35 oz (34 x 20 x 13 mm) (10 g)

R149DP — 9-Channel PCM

| Band | Stock # | Xtal # |
|----------------------------------|----------|----------------------|
| 50 MHz | FUTL0901 | FUTL56** |
| 72 MHz | FUTL0911 | FUTL57** FUTL58** |
| | | |
| Dimensions | Weight | Antenna |
| Dimensions 2.2 x 1.3 x 0.8 in | | Antenna 38.8 in |
| | | |



R156F — 6-Channel FM Micro

| | Crystal Sets |
|----------|--------------------|
| FUTL20** | Dual Conversion FM |
| | Set 50, 72 & 75MHz |
| FUTL90** | FM Set 27MHz |
| FUTL91** | FM Set 75MHz |
| FUTL92** | AM Set 72 & 75MHz |
| FUTL93** | AM Set 27MHz |
| FUTL95** | FM Short Set 27MHz |
| FUTL96** | FM Short Set 72MHz |
| FUTL97** | FM Short Set 75MHz |



R113iP — 3-Channel PCM Micro

| Band | Stock # | Xtal # |
|--------------------|----------|--------------------|
| 27 MHz | FUTL0300 | FUTL51** |
| 75 MHz | FUTL0304 | FUTL52** |
| | | |
| Dimensions | Weight | Antenna |
| 1.7 x 1.1 x 0.4 in | 0.7 oz | Antenna 19.6 in |
| | 0.7 oz | |



R303FHS — 3-Channel Synthesized R124F

| 1112-71 7 0110 | ATTITION TO THE | oiti a iviic |
|---------------------|-----------------|--------------|
| Band | Stock # | Xtal # |
| 72 MHz Low | FUTL0438 | FUTL62** |
| 72 MHz High | FUTL0439 | FUTL63** |
| Dimensions | Weight | Antenna |
| 0.6 x 1.3 x 0.64 in | | n/a |
| (15 x 33 x 16 mm) | (8.5 g) | n/a |



R148DF — 8-Channel FM Micro

| I | Band | Stock # | Xtal # |
|---|--------------------|----------|----------|
| | 50 MHz | FUTL0811 | FUTL56** |
| | 72 MHz Low | FUTL0812 | FUTL57** |
| | 72 MHz High | FUTL0813 | FUTL58** |
| ı | Dimensions | Weight | Antenna |
| | 2.2 x 1.0 x 0.9 in | | 38.8 in |
| | (56 x 25 x 23 mm) | (31 g) | (986 mm) |



R319DPS — 9-Channel PCM **Synthesized**

| Band | Stock # | Xtal # |
|-----------------------------------------|----------|-----------|
| 72 MHz | FUTL7610 | n/a |
| Dimensions | Weight | Antenna |
| 1.3 x 2.1 x 0.8 in | 1.3 oz | 43 in |
| 1.3 x 2.1 x 0.8 in (33 x 53 x 20 mm) | (35 g) | (1092 mm) |
| | | |

FUTL62** FM 72MHz Low Short FUTL63** FM 72MHz High Short

FUTL46** AM 27MHz



| 111141 4 011 | attition i ivi | VIIGIO |
|--------------------|----------------|----------|
| Band | Stock # | Xtal # |
| 72 MHz Low | FUTL0442 | FUTL62** |
| 72 MHz High | FUTL0443 | FUTL63** |
| Dimensions | Weight | Antenna |
| 1.3 x 0.8 x 0.5 in | 0.36 oz | 27.4 in |
| (33 x 20 x 13 mm) | (10 g) | (696 mm) |



R203HF - 3-Channel FM Micro High-

Weight

0.63 oz

27 MHz

75 MHz

.5 x 1.0 x 0.6 in

38 x 25 x 15 mm) (18 g)

Response System (HRS)

FUTI 0340 FUTI 61**

FUTI 0344 FUTI 64**

Antenna

| Band | Stock # | Xtal # |
|--------------------|----------|----------|
| 72 MHz Low | FUTL0442 | FUTL62** |
| 72 MHz High | FUTL0443 | FUTL63** |
| Dimensions | Weight | Antenna |
| 1.3 x 0.8 x 0.5 in | 0.36 oz | 27.4 in |
| (33 x 20 x 13 mm) | (40) | (696 mm) |



| N140DF — 6-0 | Haillel Pu | IVI IVIICIO |
|---------------------|------------|-------------|
| Band | Stock # | Xtal # |
| 50 MHz | FUTL0821 | FUTL56** |
| 72 MHz Low | FUTL0822 | FUTL57** |
| 72 MHz High | FUTL0823 | FUTL58** |
| Dimensions | Weight | Antenna |
| 2.2 x 1.0 x 0.9 in | 1.1 oz | 38.8 in |
| (56 x 25 x 23 mm) | (31 g) | (986 mm) |



R5114DPS 14-Channel Synthesized FM/PCM/PCMG3

| Xtal # | Band | Stock # | Xtal # |
|-----------|--------------------|----------|---------|
| n/a | 50 MHz | FUTL7710 | n/a |
| Antenna | 72 MHz | FUTL7708 | n/a |
| 43 in | Dimensions | Weight | Antenna |
| (1092 mm) | 1.5 x 2.0 x 0.6 in | 1.2 oz | n/a |
| | (38 x 52 x 16 mm) | (33 g) | n/a |



R143F I FM w/Fail-Safe

| 111-101 0 0110 | ATTITION TO INT | W/I dii Odi |
|--------------------|-----------------|-------------|
| Band | Stock # | Xtal # |
| 27 MHz | FUTL0350 | FUTL61** |
| 75 MHz | FUTL0354 | FUTL64** |
| Dimensions | Weight | Antenna |
| 1.1 x 1.7 x 0.6 in | | 19.6 in |
| (29 x 43 x 14 mm) | (17 g) | (498 mm) |



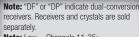
R124H

| Band | Stock # | Xtal # |
|---------------------|----------|----------|
| 27 MHz | FUTL0450 | FUTL46** |
| 72 MHz | FUTL0451 | FUTL48** |
| 75 MHz | FUTL0454 | FUTL49** |
| Dimensions | Weight | Antenna |
| 1.48 x 1.0 x 0.6 in | 0.5 oz | 19 in |
| (38 x 26 x 15 mm) | (14 a) | (483 mm) |



R168DP — 8-Channel PCM Micro

| Band | Stock # | Xtal # |
|--------------------------------------------------------|----------|----------------|
| 72 MHz | FUTL0806 | FUTL57** |
| | FUTL0807 | FUTL58** |
| | | |
| Dimensions | Weight | Antenna |
| Dimensions 1.1 x 2.2 x 0.79 in (29 x 56 x 20 mm) | 0.35 oz | Antenna n/a |



Note: Low = Channels 11-35;

High = Channels 36-60

For receivers for discontinued radio systems, visit www.futaba-rc.com

Note: Low = Ch 11-35; High = Ch 36-60 Dual-conversion (DC) crystals are compatible with all Futaba dual-conversion receivers



AM 72MHz Low

| FUTL48** | AM 72MHz High | Receiver Crystal Cas |
|----------|------------------|-------------------------------------|
| FUTL49** | AM 75MHz | Foam-lined and molded from impact |
| FUTL51** | FM 27MHz | resistant plastic, with room for 12 |
| FUTL52** | FM 75MHz | |
| FUTL56** | FM DC 50MHz | Rx crystals and 2 CAMPac modules. |
| FUTL57** | FM DC 72MHz Low | Dimensions: 3.9 x 2.4 x 1.1 in |
| FUTL58** | FM DC 72MHz High | (98 x 61 x 32 mm). |
| FUTL59** | FM DC 75MHz | |
| FUTL61** | FM 27MHz Short | |

Crystals

TRANSMITTER MODULES

Frequency Specific Modules

• All modules include crystal

For 3PK Systems:



FUTL13** PK-FM 27 & 75MHz FM/PCM/HRS



FUTL14** PK-AN 27 & 75MHz AM

For 9C and 9C Super Systems:



FUTL15** TP-FM 50 & 72MHz FM/PCM Also compatible with: 5UAF/P; 7UAF/P (S); 7UHF/P (S); 8UAF/P (S) & 8UHF/P (S)

For 9Z WC2 Systems:



FUTL17** TK-FM 50 & 72MHz FM/PCM Also compatible with: 9VA/H

Synthesized Modules

With a synthesized Tx module, there's no need to wait until "your" channel is free, because any free channel is yours to use. There's no need to change crystals, either — just dial up the channel you want!

For 3PK Systems:



FUTL8904 PK-FSM 27MHz FM/PCM/HRS



FUTL8905 PK-FSM 75MHz FM/PCM/HRS

For 9C and 9C Super Systems:



FUTL8910 TP-FSM
72MHz FM/PCM
Also compatible with: 5UAF/P; 7UAF/P (S);
7UHF/P (S); 8UAF/P (S) & 8UHF/P (S)

For 9Z WC2 Systems:



FUTL8900 TK-FSS 72 MHz FM/PCM Also compatible with: 9VA/H

Radio Frequency Ordering Information

| | | | AIR | PLAI |
|-----------|-----|-----|-----------|------|
| | Lov | v B | and | |
| Frequency | Ch. | | Frequency | Ch. |
| 72.010 | 11 | 1 | 72.270 | 24 |
| 72.030 | 12 | 1 | 72.290 | 25 |
| 72.050 | 13 | 1 | 72.310 | 26 |
| 72.070 | 14 | 1 | 72.330 | 27 |
| 72.090 | 15 | 1 | 72.350 | 28 |
| 72.110 | 16 | 1 | 72.370 | 29 |
| 72.130 | 17 | 1 | 72.390 | 30 |
| 72.150 | 18 | 1 | 72.410 | 31 |
| 72.170 | 19 | | 72.430 | 32 |
| 72.190 | 20 | | 72.450 | 33 |
| 72.210 | 21 | | 72.470 | 34 |
| 72.230 | 22 | | 72.490 | 35 |
| 72.250 | 23 | | | |

| NES (72 MHz) | | | | | | | | |
|--------------|-----------|-----|--|-----------|-----|--|--|--|
| | High Band | | | | | | | |
| | Frequency | Ch. | | Frequency | Ch. | | | |
| 1 | 72.510 | 36 | | 72.770 | 49 | | | |
| 1 | 72.530 | 37 | | 72.790 | 50 | | | |
| 1 | 72.550 | 38 | | 72.810 | 51 | | | |
| | 72.570 | 39 | | 72.830 | 52 | | | |
| | 72.590 | 40 | | 72.850 | 53 | | | |
| | 72.610 | 41 | | 72.870 | 54 | | | |
| | 72.630 | 42 | | 72.890 | 55 | | | |
| | 72.650 | 43 | | 72.910 | 56 | | | |
| | 72.670 | 44 | | 72.930 | 57 | | | |
| | 72.690 | 45 | | 72.950 | 58 | | | |
| | 72.710 | 46 | | 72.970 | 59 | | | |
| | 72.730 | 47 | | 72.990 | 60 | | | |
| | 72.750 | 48 | | | | | | |
| | | | | | | | | |

| CARS & BOATS (75 MHz) | | | | | | | | |
|--------------------------------------------------------------|-----|--|-----------|-----|--|-----------|-----|--|
| Frequency | Ch. | | Frequency | Ch. | | Frequency | Ch. | |
| 75.410 | 61 | | 75.610 | 71 | | 75.810 | 81 | |
| 75.430 | 62 | | 75.630 | 72 | | 75.830 | 82 | |
| 75.450 | 63 | | 75.650 | 73 | | 75.850 | 83 | |
| 75.470 | 64 | | 75.670 | 74 | | 75.870 | 84 | |
| 75.490 | 65 | | 75.690 | 75 | | 75.890 | 85 | |
| 75.510 | 66 | | 75.710 | 76 | | 75.910 | 86 | |
| 75.530 | 67 | | 75.730 | 77 | | 75.930 | 87 | |
| 75.550 | 68 | | 75.750 | 78 | | 75.950 | 88 | |
| 75.570 | 69 | | 75.770 | 79 | | 75.970 | 89 | |
| 75.590 | 70 | | 75.790 | 80 | | 75.990 | 90 | |
| To order a radio austam, receiver or transmitter module on a | | | | | | | | |

To order a radio system, receiver or transmitter module on a specific frequency, combine the system's 6-character stock number with the desired channel number.

Ex: FUTK6232 = a 6EXP radio (FUTK62**) on channel 32. On 72MHz systems, please specify High or Low Band.

6-METER FREQUENCIE: (50 MHz)

| (50 MH. | Freq | | |
|----------|------|------|--|
| requency | Ch. | 26.9 | |
| 0.800 | 00 | 27.0 | |
| 0.820 | 01 | 27.0 | |
| 0.840 | 02 | 27.1 | |
| 0.860 | 03 | 27.1 | |
| 0.880 | 04 | 27.2 | |
| 0.900 | 05 | | |
| 0.920 | 06 | | |
| 0.940 | 07 | | |
| 0.960 | 08 | | |

| 03 | 27.195 | A5 | Gree |
|----|--------|----|-------|
| 04 | 27.255 | A6 | Black |
| 05 | | | |
| 06 | | | |
| 07 | | | |
| | | | |

A3

6-meter frequencies require an FCC amateur radio license for operation

09

G & GY SERIES GYROS

Hassle-free heli operation – thanks to Futaba!

There's nothing like going out to the field to fly your favorite heli, and there's nothing like a Futaba gyro to make that experience even more enjoyable. Single-axis gyros give you the reliable performance you've come to expect from Futaba, whether you fly tiny electrics or larger .90-sized aerobatic models.

GY Series Gyros



For better-than-piezo performance!

Unlike standard piezo gyros with a few sensor nodes, SMMmanufactured GY Gyros feature a whopping 18 sensor nodes, all mounted on a



machined, high-density chip the size of a pencil point! The end result: unprecedented levels of functionality, reliability and sophistication.

Introduced in 2000, Futaba GY gyros have set the standard for performance. Their expanded number of sensor nodes makes them exceptionally sensitive, capable of detecting even the slightest changes in position. By contrast, SMM mounting provides GY resonators with superior shock- and vibration-resistance — a key factor in the GY Gyro's exceptionally precise, accurate performance.



Exclusively by Futaba!

All Futaba SMM (Silicon Micro Machine) gyros feature AVCS, the most positive form of tail control available for hovering and crosswind flying. Sensors send a constant stream of data to the servo, even when the tail is at rest. This allows the gyro to automatically trim for side winds or drifts, virtually eliminating the need for pilots to perform trim changes.

GY611 Gyro w/S9256 Servo

AVCS Sense

· Low Battery Alarm

* = transmitter adjustable

• Servo EPA
• Remote Function

- High-resolution, 12-bit A/D microprocessor w/760 ms pulse rate
- Set-up on amp, or remotely from 14MZ, 12FG, 12Z, 9Z and 9C Super systems.
- Aeroform case for easier mounting and better vibration-resistance.
- LCD w/Adjustable Contrast
- Gyro and Rudder Gain*
- Normal/AVCS/CMT Modes*
- · Control Delay
- Gain Tracking
- F3C or 3D Flight Modes

Amp Dimensions/Weight: 2.3 x 1.3 x 0.6 in/1.2 oz Sensor Dimensions/Weight: 1.2 x 1.2 x 0.7 in/1.1 oz

)



- Gain Adjustment
- AVCS/Normal Modes
- Normal/Reverse Rotation

Dimensions: 1 x 1 x 0.8 in **Weight:** 0.88 oz

FUTM0809



Dimensions: 1 x 1 x 0.8 in

Weight: 0.95 oz

FUTM0825

• Gain Adjustment

(FUTM0808)

AVCS/Normal Modes

Available alone or with

S9254 digital servo

- Normal/Reverse Rotation
- DS (Digital Servo) On/Off
- Servo EPA
- Control Delay

G190 Micro Piezo Gyro

- Ideal for electric helis thanks to its light (1/4 oz.) weight and small (0.9 in.) size!
- Ingenious case design offers virtually unlimited mounting options.
- Adjustable Gain
- Set-up LED



FUTM0830 Dimensions: 0.87 x 0.90 x 0.35 in **Weight:** 0.24 o7

ON-BOARD ELECTRONICS

FSU-2 Micro Fail-Safe

Runaways can be dangerous and costly, unless there's an FSU-2 on-board. If it detects interference or low voltage, it automatically throttles back to a user-selected setting. One-button programming and a status LED speed and simplify set-up...and installation requires only plugging in and mounting with double-sided tape. Its small size and weight make the FSU-2 ideal for any car or truck and compatible with both 4.8V and 6.0V receiver packs.

Dimensions: 0.6 x 0.9 x 0.3 in (16 x 22 x 0.3 mm)



FIITM0992

Weight: 0.18 oz (5 g)

SR10 Dual Servo Reverser

The SR10 delivers precision dual servo control without any special mixing. Ideal for two-servo control surfaces or twin-engine throttles, it controls two servos from a single channel without the need for special motors or transmitter mixing. Easy to install and equally useful in cars, boats and large-scale aircraft, it features adjustable

Dimensions: 0.9 x 1.5 x 0.4 in (23 x 38 x 9 mm) Weight: 0.9 oz (26 a)

FUTM4150



MSA-10 Servo Synchronizer

neutral trim and an RF noise filter for signal clarity.

Match servo performance and precision with the MSA-10! You can synchronize the operation of up to 4 servos and control them all from a single channel. Separate end point and travel adjustments for each servo ease set-up and improve precision. Reversing allows you to mount servos for maximum ease and efficiency. The MSA-10 can be powered by the receiver battery, or by a separate pack. **FUTM4155**

Dimensions: 0.8 x 1.5 x 0.6 in (21 x 39 x 15 mm)

Weight: 0.5 oz (13 g)

GV-1 Governor

More precise, consistent control — automatically!

Futaba's GV-1 is used to maintain a constant rotor head speed for improved flight performance. It turns on and off from the throttle stick and holds rpm to within +/- 1% of the value you set. Works in a 1,000-2,100 rpm range. Includes control amp, sensor,

mounting brackets for .30 and .60 models, magnets and a small screwdriver. Requires 3.8-.6.0V power and draws 40mA @ 4.8V. Sensor Magnet Bracket includes all GV-1 parts except control amp. Also available: Replacement Magnets.

Sensor: 0.3 x 0.4 x 0.6 in (8 x 10 x 16 mm)

Control Amp: 2.2 x 1.2 x 0.6 in (57 x 31 x 16 mm)

Weight: 1.34 oz (38 g)

FUTM1101 GV101 Sensor Magnet Bracket FUTM1105 AB0937 GV-1 Magnet (2)



FIITM 1001

MPDX1 Multi-Proportional **System 8-Channel Decoder**

For use with the 12Z. 14MZ and FX-40 radio systems, this versatile decoder is the perfect way for large-scale plane, jet and heli pilots to add seven more channels to any Futaba FM, PCM 1024 or PCM 2048 receiver. All added channels are fully proportional and switch selectable, plus they feature EPA, ATV and fail-safe. Easy to set up, it's preset for PCM 2048 resolution and includes other features such as linear operation and 8-channel



servo operation with only 1 channel. Operating control setting, direction of operation change and travel are also possible for each multi-prop expanded channel. R5014DPS and R5114DPS receiver owners can realize the MPDX1's maximum potential - up to 28-channel expansion!

Dimensions: 1.2 x 1.6 x 0.62 in (30 x 39 x 16 mm)

Weight: .031 oz (14 q)

Brushed Electronic Speed Controls

With Futaba Electronic Speed Controls (ESCs), enjoying smooth, proportional control of acceleration is as easy as the push-button set-up that precedes it. Heat sinks, powerful FETs and high-frequency switching provide cool, efficient operation. Reversible ESCs include a lock-out that allows drivers to move from sport driving to club racing with a touch, while the MC850C Programmable Competition ESC features a digital set-up system, ATL brake travel adjustment, plus low voltage, power on and heat protection. Optional CIU-2 PC Interface adds serial communication functions. All ESCs include screwdriver, capacitor, Schottky diode, double-side tape and power switch.



FUTM0932

- Forward/Reverse/Brake
- 1.5kHz Switching Rate
- 5.0V BEC
- · Reverse Lock-Out for ROAR-legal racing
- · Auto Cut-Off cuts motor power when voltage drops
- · Protected against short circuits, current and heat overload
- · Signals that receiver is not turned off with sound alarm and vehicle "pulsing"
- Futaba J receiver, bullet motor and JST battery connectors installed



- Developed for high-performance competition racing
- · SMD MOSFETs for minimal losses and maximum power
- 6 OV RFC
- Operates with 4-7 cell (4.8V-8.4V) NiCd & NiMH batteries
- · For brushed motors 5 turns and up
- · Current limit with timer
- Neutral brake
- External solder points with 12AWG silicone flex wire



- FUTM0951
- Customize your MC850C settings · Windows®-compatible
- Data logging function Data read and erase
- · Variable frequency range setting: 100Hz - 10KHz
- · Low battery voltage protection setting: 2.5V - 6.0V
- · Current limiter: 50A; 300A; cancel
- Brake MAX duty: 0% 100%
- Neutral Brake: 0 100%
- · Software can be downloaded at www.futaba-rc.com FREE!

| Stock# | Model# | Dimensions | Weight | Capacity | Motor Limit | Current (fwd/rev) | Wire |
|----------|---------|----------------------------------------|----------------|-----------|-------------|-------------------|--------|
| FUTM0922 | MC230CR | 1.1 x 1.30 x 0.50 in (27 x 13 x 34 mm) | 1.6 oz (44 g) | 6-7 cells | 20+ turns | 90A/45A | 16 ga. |
| FUTM0932 | MC330CR | 1.1 x 1.30 x 0.50 in (27 x 13 x 33 mm) | 1.6 oz (44 g) | 6-7 cells | 15+ turns | 200A/100A | 14 ga. |
| FUTM0950 | MC850C | 1.1 x 1.0 x 0.57 in (29 x 26 x 15 mm) | 0.62 oz (18 g) | 4-7 cell | 5+ turns | 120A/-A | 12 ga. |



14MZ & 12Z **ACCESSORIES & OPTIONS**

R5114DPS PCM G3 2048 Receiver

- Ball Grid Array (BGA) layered PC board technology eliminates pins to allow for a 14-channel receiver that's incredibly compact
- Wireless Frequency Setting System™ (WFSS) makes crystalfree channel changes fast and easy

Dimensions: 1.5W x 2.1L x 0.6H

FUTL7708 72MHz FUTL7710 50MHz

(37.7 x 52.2 x 16.3 mm)

32MB Data-Pack Memory Card

- · Plug-in capacity and convenience for storing programming and images for up to 100 additional models
- Up to 24 voice prompts and extended musical or verbal sequences as Windows Media Audio (WMA) files
- Downloaded upgrades for programs and functions

FUTM9410

Lithium-Ion Tx Battery

- · Stores power for up to 3 hours of flight per charge
- Includes unique slide charge indicator

Capacity: 7.4V/200mAh

Dimensions: 2.7W x 1.5L x 0.79H in

(68.6 x 38.1 x 20.1 mm)

FIITM1475

Tx Battery Charger

- Recharges the 12Z and 14MZ's 2200mAh Lithium-lon pack in about one hour
- Indicator light turns off when charging is complete

Input: 100-240V AC current (50/60Hz) Output: 8.4V. 1.5A DC current

FIITM1700

NR4F1500 NiCd Rx Battery

Capacity: 4.8V/1500mAh

Dimensions: 1.9W x 2.8L x 0.74H in (47 x 69 x 18.5 mm)

Weight: 4.1 oz (116 g)

FIITM1285



Rx Battery Charger

· Recharges Rx battery (FUTM1285) overnight

Input: 120V AC current (60Hz) Output: 5 8V DC current FIITM1705



$\mathsf{CR} extsf{-}\mathsf{2500}$ Lithium-Ion Tx/Rx Charger

- Capable of charging the 14MZ's Tx and any 4-6 cell Rx pack or glow starter cell simultaneously
- Auto-stop uses constant current/constant voltage method for Lithium-lon charging, and delta peak method for Rx NiCds and glow starter cells
- LCD displays input and output voltage, peak voltage and charge current, time and amount



Requires: 12V. 6A power FIITM4168

Stylus/Wrench Box for 14MZ

- · Rubber tip safely pinpoints desired functions on touch-screen
- · Tool under tip easily tightens switch dress nuts
- · Hollow handle stores L-wrenches for changing switch location and adjusting the antenna or stick tension

FUTM5687

Transmitter Display Screen Cleaner

Made of super-soft synthetic suede for scratch-free cleaning

Dimensions: 7.5W x 8.1L x 0.04H in (191 x 205.7 x 1.0 mm) FIITM5720

DSC/Charge Adapter Cord

Charge adapter for 4VF, 6EX, 7C, 9C Super, 9Z, 12FG, 12Z and 14MZ

FIITM4243



ANT-12 Antenna for 12Z & ANT-17 Antenna for 14MZ

FUTM5110 ANT-12 FUTM5120 ANT-17

Transmitter Neck Strap

· Adjustable length for customized feel

FUTM5693



Heavy-Duty Switch Harness

· Heavy-gauge wiring and pre-soldered connectors for quality and reliability



TRANSMITTER ACCESSORIES

Trainer Cords & Trainer Box

Trainer Cords are the learning link between student and instructor! Cords are available in four connector combinations that can make any two Futaba aircraft systems a teaching-learning pair.



FUTM4376

FM Trainer Box

Looks and feels like a standard 4-channel radio, but includes only what a student pilot needs to train economically with an instructor — no receiver, servos, batteries or antenna. Requires trainer cord and compatible master radio.



MMTC-FG Cord

Square Micro/12FG For: Connects 4EX, 6EX, 7C and 9C systems to the 12FG



MTFM Cord

Round/Round For: Most earlier Futaba radios



MMTC Cord

Square Micro/Square Micro For: Connecting newer systems



MDTC Cord

Round/Square Micro For: Connecting newer systems to "round plug" systems

Radio Bags

3PK Transmitter Bag

Created for the 3PK, but movable foam blocks allow use with any 2- or 3-channel pistol-grip radio. Black nylon construction with rigid sides, carrying handle, and adjustable shoulder strap.

Measures: 15 x 8.8 x 6 in (380 x 225 x 150 mm)

FUTP1000



Universal Carrying Bag

Made of tough, reinforced nylon. Includes five 10" x 12" sheets of foam to customize space, and a hook & loopsealed 4.5" x 6.7" pouch for safe, easy storage of cords, crystals and other accessories.

FUTP1001

Metal Transmitter Cases

- All feature brushed aluminum exteriors with foam-padded interiors
- · Lockable latches and two keys included



Team Single Case

Measures: 15.1 x 10.3 x 6.2 in (385 x 230 x 160 mm) **FUTP1015**



14MZ Single Case

Measures: 16.0 x 11.8 x 6.8 (405 x 300 x 175 mm)

FUTP1018

3PK Case

Measures: 15 x 10.6 x 6.3 in (380 x 270 x 160 mm)

FUTP1010





Measures: 17.6 x 7.9 x 9.6 in (445 x 200 x 245 mm) FUTP1020



Measures: 16.5 x 11.8 x 6.8 (420 x 300 x 175 mm)

FIITP1017



Dry Cell Battery Cases



S30050

UM3 Tx Battery Case 8-Cell Dry For: 2P/KA, 2PD/F, 3PB, 5UAF/P, 6NHP, 7UAF/P/FS/PS

FUTM1560



8-Cell Dry Transmitter Battery Holder

For: 3PK FUTM1563



S10730

8-Cell Dry Slant Tx Battery Case For: 2PB/KA

FUTM1580



4-Cell Dry Rx Case . BEC Connector For: 2ER/FR/PH/PHKA, 3FR FUTM1590



4-Cell Dry Rx Case • J Connector For: 3PK

FLIGHT PACKS

Fly every model in your hangar with just one radio!

Less work than moving equipment from model to model, more affordable than assembling sets piece by piece, Futaba Flight Packs bring together the essentials of on-board gear in a single, convenient package. Add your own receiver crystal and you're ready to fly.

NOTE: Low Band version can be used only with crystals for Channels 11-35. High Band version can be used only with crystals for Channels 36-60.

Micro Flight Packs

Ultra Micro Flight Pack

Features micro servos with lightweight micro plugs

- R124F Receiver
- (2) S3111M Servos

FUTL0211 Low Band FUTL0236 High Band



Micro Flight Pack

Equipped with high-torque servos

- R114F Receiver
- (2) S3114 Servos
- Switch Harness
- Servo Accessories

FUTL0605 Low Band **FUTL0606** High Band



8-Channel Dual Conversion Flight Packs RI68DF universal receivers accept either high- OR low-band crystals

Airplane Flight Pack

- R168DF Receiver
- (4) S3004 Servos
- Switch Harness
- 9" Servo Extension
- Servo Accessories



Airplane Flight Pack w/Rx Pack

- R168DF Receiver
- (4) S3004 Servos
- 600mAh Rx NiCd (NR-4QB) Battery
- Switch Harness
- 9" Servo Extension
- Servo Accessories



Helicopter Flight Pack

- R168DF Receiver
- (5) S3001 Servos
- 1000mAh Rx NiCd (NR-4RB) Battery
- Switch Harness
- 9" Servo Extension
- Servo Accessories



Airplane Flight Pack with Digital Servos

- R168DF Receiver
- (4) S3151 Servos
- 1000mAh Rx NiCd (NR-4RB) Battery
- Switch Harness
- 9" Servo Extension
- Servo Accessories



TRANSMITTER AND RECEIVER NICO BATTERY PACKS

Unbeatable Sanyo® Quality - For An Unbeatable Price!

Discerning modelers know Sanyo battery packs set the standard in reliability and performance, but how? Quad-welded tabs offer users the increased vibration-resistance and durability they demand. Futaba goes the extra mile by also including strain-relief covers and heavy-duty shrink wrap.



Receiver NiCds

Most packs include a Futaba J connector. Exceptions noted.



FUTM1210 Flat Pack 4.8V/250mAh 1.3 x 2.3 x 0.6 in (32 x 58 x 15 mm) 2.0 oz (57 g)



FUTM1215

Square Pack 4.8V/250mAh 1.1 x 1.1 x 1.3 in (29 x 29 x 33 mm) 1 8 oz (51 a)



FUTM1280 Flat Pack 4.8V/600mAh 2.0 x 2.3 x 0.6 in (51 x 58 x 15 mm) 3.4 oz (95 g)



NR4F1500

FUTM1285 Flat Pack 4.8V/1500mAh 1.9 x 2.8 x 0.7 in (47 x 69 x 19 mm) 4.1 oz (116 g)



NR4M

FUTM1290 Flat Pack 4.8V/500mAh w/G connector 2.0 x 2.3 x 0.6 in (51 x 58 x 15 mm) 3.4 oz (96 g)



NR4QB

FUTM1295 Square Pack 4.8V/600mAh 1.1 x 2.0 x 1.1 in (28 x 51 x 28 mm) 3.4 oz (96 g)



NR4RB

FUTM1380 Flat Pack 4 8V/1000mAh 1.9 x 2.8 x 0.7 in (47 x 69 x 19 mm) 4 oz (112 g)



NR5F600

FUTM1381 Flat Pack 6 0V/600mAh 1.3 x 3.4 x 0.7 in (32 x 85 x 18 mm) 3.5 oz (100 g)



NR5T600

FUTM1383 Hump Pack 6.0V/600mAh 12x20x13in (31 x 51 x 32 mm) 3.5 oz (100 g)



NR5RB

FUTM1385 Hump Pack 6.0V/1000mAh 19x21x13in (47 x 52 x 33 mm) 5.0 oz (141 g)



NR5U50

FUTM1200 6V/50mAh 0.7 x 1.7 x 0.9 in (18 x 41 x 20 mm) 0.7 oz (20 g)



NR5V120

FUTM1205 6V/120mAh 0.7 x 1.7 x 0.9 in (17 x 44 x 22 mm) 1.1 oz (32 g)

Transmitter NiCds

Most packs include a Futaba J connector. Exceptions noted.



FUTM1430 Flat Pack 4FG, 5FGK, 6FG/K, 7FG, 8SSA/GAP 9.6V/500mAh w/2-pin connector 5.9 x 0.6 x 1.7 in (150 x 15 x 43 mm)



NTREGOOR

FUTM1440 Flat Pack 4YF, 6YG/YF 9.6V/600mAh w/.Lconnector 4.5 x 0.56 x 2 in (114 x 14 x 51 mm)



NT8LP

FUTM1450 Square Pack 2PD/PKA, 3PB/UCP/PG, 4NL, 5UAF/UAP/NLH/NLP, 6NHP/ NLK, and 7UAPS/UAFS/UHFS 9 6V/500mAh w/9V connector 4.4 x 1.2 x 1.2 in (112 x 31 x 31 mm)



NT8S600B

FUTM1457 Square Pack 6DA/NPK/YF, 7NFK and all 8UA/H radios 9 6V/600mAh w/.l connector 4.1 x 1.3 x 1.2 in (104 x 33 x 31 mm)



NT8S700B

FUTM1460 Square Pack 6DA/VA/NFK/NPK, 7NFK, 8U and 9C/VAP(S)/VNP(S) 9.6V/700mAh w/J connector 4.1 x 1.3 x 1.2 in (104 x 33 x 31 mm)



NT8F700B

FUTM1462 Flat Pack 3PK/PM/VCS and 6EXP/EX 2.4 9.6V/700mAh w/J connector 4.5 x 0.56 x 2 in (114 x 14 x 51 mm)



NT8JY

FUTM1463 Flat Pack 6VA/NPK/NFK, 7NFK, 8UA/H/ US and 9VAP(S)/VHP(S) 9.6V/600mAh w/2-pin connector 4.5 x 0.6 x 2 in (114 x 15 x 51 mm)



NT8IB

FUTM1465 Square Pack 6VA/NPK/NFK, 7NFK, 8UA/ H/US and 9VAP(S)/VHP(S) 9.6V/600mAh w/J connector 4 x 1 1 x 1 2 in (102 x 28 x 31 mm)



NT8F1100B

FUTM1468 Flat Pack 3PK/PM 6FXP/FX 2 4 9.6V/1100mAh w/J connector 4.5 x 0.6 x 2 in (114 x 15 x 51 mm)



NT8S1100

FUTM1470 Square Pack 9.6V/1100mAh w/5-pin connector 4.8 x 1.4 x 1.4 in (122 x 36 x 36 mm)

BATTERY CHARGERS/ DISCHARGERS

CR-2000 Peak Charger

- Push-button peak charging and jog-dial programming for NiCd or NiMH radio packs and glow starter cells!
- Peaks a Tx and Rx pack, or Tx pack and glow starter cell at the same time!
- · Alert sounds when peak charging ends and trickle starts!
- · Backlit LCD shows 6 critical pieces of cell/pack data: input, output and peak voltages and charge rate, time and capacity
- · Includes thermal and reverse polarity protection

Input Voltage: 11-15V DC

Capacity: 6-8 cell, 500-2000mAh (Tx); 4-6 cell, 50-2000mAh (Rx); and 1-cell, 1000-2500mAh (glow cells) Charge Current: 0.5A-2A (Tx); 0.05A-2A (Rx, glow cell) **Trickle Current:** 5mA (at 0.05-0.45A); 70mA (at 0.5-2.5A) **Dimensions:** 6.0 x 3.4 x 1.4 in (150 x 85 x 35 mm)

CR-2000 **Futaba**

FUTM4160

Weight: 12.5 oz (355 g)

Includes: power cord w/alligator clips and 12V car adapter, 28 in (710 mm) Tx charge cord and 20 in (510 mm) and 80 in (2030 mm) Rx charge cord adapters

CR-2500 Charger/Discharger/Cycler

- Charges 4-6 cell Rx packs, glow starter cells and Lithium-Ion Tx packs for the 12Z, 14MZ and FX-40 —cycles and discharges Rx packs, too
- Design allows simultaneous TX/Rx or Tx and glow cell charging
- · Easy jog-dial programming and pushbutton start
- Automatically stops charging for NiCd/ NiMH Rx packs and glow cells at peak - by cc/cv (constant current/constant voltage) method & timed charging for the Lilon TX pack
- · LCD displays input, output and peak voltages, as well as charge time, current and capacity, plus error messages

Input Voltage: 11-15V DC

Capacity: 7.4V 2200mAh (Fut. Tx pack); 4-6 cell, 50-2000mAh (Rx); 1-cell, 1000-2500mAh (glow) Charge Current: 0.1-1.5A (Tx); 0.05-2A (Rx);

1-2.5A (glow)



FUTM4168

Discharge Current: 0.5A (Rx only)

Dimensions: 5.9 x 3.3 x 1.4 in (150 x 85 x 35 mm)

Weight: 12.9 oz (365 g)

Includes: alligator clips and 12V car adapter, Tx charge adapter & Futaba male/female adapters.

BR-2000 Checker/Discharger

- Push-button ease for 4-6 cell NiCd and NiMH Rx packs and single Lithium-Ion cells
- · Backlit LCD glows red as it checks and blue during discharge
- · Displays voltage for all cells, plus pack capacity for NiCds and NiMHs
- Adiustable 1-3A discharge rate, built-in fan and auto cut-off
- · Color-coded outer ring shows voltage level at a glance

Dimensions: 3.0 x 3.0 x 1.0 in (77 x 77 x 26 mm)

Weight: 4.4 oz (125 g)









HBC-2B(4) 12FG Tx Charger

FIITM1805

- 9Z and Dual chargers handle Tx and Rx NiCd packs singly or simultaneously
- HBC-2B(4) charges 12FG's NiMH Tx pack overnight
- · All require AC power

ROBOT & ACCESSORIES

HUMANOID ROBOT

Fully assembled and ready to walk.

The RBT-1 robot needs only one more component to be complete: You to give the orders. You'll use the included, game-style controller to execute pre-programmed routines or those you program yourself with the supplied Motion Editor software for your Windows® PC.

- FASST 2.4GHz radio signals direct its 20 servos for smooth, quick, precise control.
- Electronics for flexible 16-channel operation are located in the torso for easy access.
- Includes a rechargeable, high-capacity, 7.4V LiPo battery.
- · Self-righting for continuous action.
- LED "eyes" add to the humanoid appearance
- Program routines on your PC!

Program these actions and more:

- Walk
- Splits
- · Balance on one leg
- Run
- Bow
- Forward/backward flips
- Dance
- Headstand
- Kick
- · Somersault
- Jump
- Turn











Robot Replacement Parts & Accessories

FUTX1100 RPU-11 Processing Unit FUTX1110 LBC-3E5 AC LiPo Charger

FUTX1115 PR4S780P 7.4V 780mAh LiPo Battery

FUTX1120 RS232C Interface Cable

FUTX1125 RRCT-11 Transmitter 2.4GHz

FUTX1130 RRCR-11 Receiver 2.4GHz



See the RBT-1 in action at www.2.4gigahertz.com!

ROBOT SERVOS

RS301CR

Dimensions: 1.5 x 0.8 x 1 in (37 x 20 x 25 mm)

Weight: 0.9 oz (24 a)

Torque @ 7.4V: 99 oz-in (7.13 kg-cm)

Speed @ 7.4V: 0.11/60° Rotational Range: 300°

FUTX1001 RS301CR Servo 2 in Wire Extensions FUTX1002 RS301CR Servo 4 in Wire Extensions



RS302CD

Dimensions: 1.5 x 0.8 x 1 in (37 x 20 x 25 mm)

Weight: 0.9 oz (24 g)

Torque @ 7.4V: 70 oz-in (5.04 kg-cm)

Speed @ 7.4V: 0.16/60° Rotational Range: 300°

FUTX1005 RS302CD Servo 2 in Wire Extensions FUTX1006 RS302CD Servo 4 in Wire Extensions



RS403PR High-Torque Digital MG

Dimensions: 1.6 x 0.8 x 1.5 in (40 x 20 x 37.6 mm)

Weight: 2.2 oz (63 g)

Torque @ 6.0V: 192 oz-in (13.8 kg-cm) Speed @ 6.0V: 0.13 sec/609 Rotational Range: 180°

FUTM0503



RS404PD High-Torque MG

Dimensions: 1.6 x 0.8 x 1.54 in (40 x 20 x 39 mm)

Weight: 1.67 oz (47.5 g)

Torque (@6.0V): 124 oz-in (8.9 kg-cm) Speed (@6.0V): 0.20 sec/60° Rotational Range: 150°



More modelers insist on Futaba.

It's easy to see why nearly everyone you meet at the track, pond or flying field owns a Futaba radio. Whether it's price, ease of use or access to innovative programming functions for highly customized control, there's a Futaba system that will bring out the best in your model.

Team Futaba is here for YOU.

Comprised of expert modelers in racing, flying and boating, Team Futaba is a major presence at R/C events all over the country. Feel free to ask questions or to get advice that will help you enjoy your modeling even more!







Greg Hahn



Jerry Dunlan



Jason Shulman



Andrew Jesky



Rvan Maifield



Taylor James



Jared Tebo

Visit Futaba online.



Looking for details about Futaba's selection of radios, servos, parts and accessories? It's all as close as your computer.

www.futaba-rc.com

www.2.4gigahertz.com

www.I4mz.com

www.findfutaba.com

Specialists in fast, friendly service.

In the unlikely event that your Futaba equipment ever requires service, you can count on Futaba's exceptional Service Center to get you back into the action fast.

Staffed by expert technicians and equipped with the most advanced diagnostic tools, the Service Center gives your Futaba radio system the knowledgeable care that it deserves. If a repair is needed, they get it right the first time.



And the Service Center's location in the central United States means that shipping to most areas of the country takes only two days. You get your return package fast — without paying high overnight shipping charges.

Futaba Service Center USA 3002 N. Apollo Dr. Suite 1, Champaign, IL 61822

One Year Limited Warranty

Futaba digital proportional R/C systems are warranted to the original purchaser for one full year from the date of purchase against defects in material and workmanship. During this period Futaba will repair or replace, at our discretion, the defective component.

This warranty does not apply to improperly installed, handled or abused systems, radios which have been damaged in a crash, nor to any unit which has been repaired or altered by unauthorized agencies. Under no circumstances will the buyer be entitled to consequential or incidental damages. This limited warranty gives you specific legal rights; you may have other rights which vary from state to state. Batteries and plastic housings are not covered by warranty.

 $This \ warranty \ applies \ to \ Futaba \ products \ purchased \ and \ used \ in \ the \ United \ States, \ Canada \ and \ Mexico.$

Futaba