

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

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PUSH

There's regular spread spectrum technology — and then there's FASST

What's the difference?

More experience

Spread spectrum technology is new to hobby R/C, but familiar ground to Futaba. So when we introduced our first hobby system in 2007, it wasn't a limited-range park flyer system we *hoped* would work. It was the 6EX, a full range full-featured system based on 15 years of proven performance, using proprietary chips and circuitry we'd developed for our first industrial system almost a generation before.

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Greater dependability

on land, in the air and on the water.

A system that "sits" on just two frequencies is dependable until someone turns on a system that uses the same two frequencies. Once that happens, things can go bad in a hurry.

FASST systems avoid this with Continuous Channel Shifting. By using a larger number of frequencies *and* switching among them hundreds of times each second, Continuous Channel Shifting reduces the chances of interference to virtually nothing.

Futaba's patented Pre-Vision[™] feature reduces the chances even further. It scans incoming signals, to detect and correct imperfect data at the

receiver and ensure that the signal reaching your servos is perfectly and totally clear.

And while most manufacturers still advise against using spread spectrum systems in boats, FASST systems have been helping boat drivers rack up wins and take national titles almost since FASST was introduced.

Stronger signals without satellites.

Some 2.4GHz systems require up to 5 receivers to ensure maximum signal strength. FASST systems do it with just one. Dual Antenna Diversity guarantees you the strongest signal possible, without buying — or installing — multiple components.

Faster, easier links

Linking your transmitter and receiver should be fast and simple — and FASST Easy LinkTM receivers make it both. Instead of binding plugs and multi-step procedures, there's a push-button. Pressing it once creates an unbreakable transmitter-receiver link in seconds, even when the airwaves are crowded.

More wins.

Winning takes talent, hard work and the right equipment — and these are just a few of the champions who choose Futaba.





The U.S.A.'s F3A team for 2009 includes Jason Shulman, Andrew Jesky and Brett Wickizer. Their unanimous radio of choice: the 14MZ!

"My mission is simple: to design, build and fly every plane I've ever liked."

— Carl Bachhuber

"I've been using Futaba products for over 30 years," Carl explains. "My newest radio, the 12FGA FASST, takes that great tradition to a whole new level. I need absolutely

reliable, versatile, interference-resistant control, and this terrific system delivers."



Atsushi Hara, 2008 IFMAR 1/8 Scale Buggy Champion, celebrating with the 4PK FASST.



"Double 1-2-3 Sweep for Futaba pilots at 2008 XFC!" Andrew Jesky took top honors in airplane competition, followed by team members Jason Noll and Kelly Gerber. Champion Dominik Hagele and team members Bobby Watts & Nick Maxwell dominated the heli division.

World-class service.

With its expert technicians and advanced diagnostic tools, the Service Center gives your Futaba radio system the knowledgeable care that it deserves. If it needs repair, they get it right the first time.

Its location in the central United States means that shipping to most areas of the country takes only two days. You get your radio back fast, without paying high overnight shipping charges.



Futaba Service Center USA

Address: 3002 N. Apollo Dr. Suite 1, Champaign, IL 61822

Telephone: 1-217-398—0007. Available Monday-Friday, 8 a.m.-5 p.m., Central Standard Time (CST)

Fax: 1-217-398-7721.

(Please be sure to include a daytime telephone number or return fax number.)

E-mail: service@futaba-rc.com



"You guys have a winner!"

— Pilot David Shulman, on using the 14MZ to test his Rafale B-01

"I put on three solid flights, flying the heck out of the new jet — far, fast and hard. The resolution and reliability of the 14MZ were phenomenal."

"Setup and programming normally take a long time, a few evenings. But the 14MZ has been a dream. Dropping it into a new jet and setting it all up requires as little as 20 minutes, flap mixes and all. The best part? No 'satellite' receivers."

> Want to find a dealer? Visit findfutaba.com For more on the 14MZ system, visit 14mz.com

I4MZ[®] I4-Channel FASST Computer Radio

The world's only I4-channel R/C system — with unrivaled power and dependability.

It's Futaba's most advanced radio — designed for the pilot who demands the very best.

You can program the 14MZ FASST with a touch or by using the rotary dial to pull up any of its 30 digitally precise model memories in an instant. Once you do, get ready to experience performance perfection that you might have believed impossible! 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 Futaba FASST 14MZ - nothing else comes close!

14MZ System Overview

- 2048 resolution
- Real-Time Response[™]
- Dual internal processors: Windows[®] CE for setup/programming tasks; Futaba for flight control functions
- Dual programming methods: "Touch n' Go[™]" touch screen or rotary dial and direct select buttons
- Capable of FM/PPM, PCM1024 and PCM2048 operation
- Airplane / heli and glider software
- 30-model memory, expandable to 130 models*
- · Model clear, copy and naming
- Assignable switches/functions
- Switch customizing
- 6 factory-preset Variable Dual Rates[™]
- Servo Grouping[™] for multi-servo synchronization
- Engine mixing (for up to 4 engines)
- Transflexive, backlit 640 x 240 HVGA display w/ adjustable contrast
- 10 programmable mixes

- 24 factory-defined mixes (16 air; 8 heli)
- 9 flight conditions
- 6 digital trims
- Servo monitor display
- · Servo reversing, servo center and EPA
- Mode 1-4 selectable
- Throttle cut/idle down
- Swash AFR
- Gimbals with quad bearings and long-life potentiometers
- · Sticks with adjustable length, tension and detent
- 4 slider switches (2 side-mount; 2 front/back accessible)
- 7-color status LED
- Charging, DSC and trainer jacks
- Deluxe metal carrying case
- Wall chargers, touch screen stylus, cleaner, neck strap, DSC cord, rubber grips and hex wrenches

14MZ Specifics

- 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 and "quick-step" mode for multi-increment advancement
- Free online software downloads of updates and upgrades
- Free membership in Futaba Flyers Club

* 32MB Compact Flash Card included. Ideal for downloading/storing images; recording/playback of sound files & voice prompts; expanding memory by 100 models.

Stock #	System	Band	Receiver	Tx Lilon	Rx NiCd	Mode	Tx Module
FUTK9400	14MZAP FASST	2.4GHz	R6014FS	2200mAh	1500mAh	2	TM-14
FUTK9401	14MZHP FASST	2.4GHz	R6014FS	2200mAh	1500mAh	2	TM-14
Also availab	le in Mode 1						

2.4gigahertz.com



futaba-rc.com

2.4GHZ

utaba

I2-Channel 2.4GHz Computer Systems

Powered by dual processors!

It's the only system that rivals the 14MZ in performance and programming potential — and the 12Z offers exceptional value as well. All the functions you could want are here and ready to take your flying to the next level.

12Z Overview

- Dial 'n Key programming
- 300 x 128 LCD w/adjustable contrast
- 25-model memory, expandable to 245 models*
- Model clear, copy & naming
- Menus/Functions: System (8); Linkage (14 airplane/16 heli); Model (14 airplane/17 heli)
- Airplane/glider & heli software
- 10 programmable mixes
- 24 factory-defined mixes
- 8 flight conditions
- Digital trims
- Assignable switches/functions
- 2048 resolution
- Real-Time Response[™]
- 6 Variable Dual Rates[™]
- Servo Grouping[™] for multi-servo synchronization
- Capable of FM/PPM, PCM1024 or PCM2048 operation
- Servo reversing, servo center & EPA
- Mode 1-4 selectable
- Gimbals with quad bearings and long-life potentiometers
- Sticks w/adjustable length, tension and detent
- 8 shoulder switches
- 2 slider switches
- 3 rotary dials
- 7.4V, 2200mAh Lithium Ion Tx and 4.8V, 1500mAh NiCd batteries w/chargers
- Lockable metal carrying case
- * Requires optional 32MB Compact Flash Card (FUTM9410)



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12Z Specifics

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- Includes two Futaba processors: one for flight control, one for set-up/programming
- "Joystick" button for faster, simpler menu navigation
- Variable Dual Rates that can be assigned to any function in any configuration
- Ultra-fine 0.5% setting increments and "fast forward" mode for multi-increment advancement
- Engine mixing option for synchronizing up to four engines
- Backplate-mounted slider switches offer fingertip control

CTRUM TECHNOLO

- Free membership in the Futaba Flyers Club
- Free online downloads of system enhancements and software updates

Stock #	System	Band	Receiver	Tx Li-ION	Rx NiCd	Tx Module	Mode
FUTK9300	12ZAP FASST	2.4GHz	R6014FS	2200mAh	1500mAh	TM-14	2
FUTK9301	12ZHP FASST	2.4GHz	R6014FS	2200mAh	1500mAh	TM-14	2

Also available in Mode 1

2.4gigahertz.com

IZFG

I2-Channel 2.4GHz Computer Systems Affordable, cutting-edge I2-channel control...

Download upgrades/updates online - free!

The most amazing thing about the 12FG is not how much it can do. It's how it can do so much, yet be so affordable! The 12FG offers more than the cutting-edge dependability of 2.4GHz FASST[™]

technology; it offers many of the features you'll find on our 12Z and 14MZ systems: 2048 resolution, programmable and factorydefined mixes, plus the ability to download updates and programming enhancements online, free of charge. Unrivaled technology. Unsurpassed value. The 12FG 2.4GHz – only from Futaba.

12FG System Overview

- Dial 'n Key™ programming
- Assignable switches/functions
- Heli, airplane and glider software
- 10 programmable mixes
- 46 factory-defined mixes/functions (14 heli; 32 airplane/glider)
- 30-model memory (expandable to 1,088 models*)
- 8-character model naming
- 2048 resolution
- 6 digital trims
- Servo Grouping[™]
- 6 Variable Dual Rates™
- Dual/triple rates, servo centering, servo reversing, exponential and endpoint adjustment
- 8 flight conditions w/delay
- 255 x 96 LCD w/adjustable contrast
- Free downloads of software updates/upgrades
- Fail-safe
- · Servo monitor display
- 2 slider switches (front/back access)
- 17-point throttle and pitch curves
- Model clear, copy, re-set
- AFR (Adjustable Function Rate)



Futaba

- "Full functionality" trainer system
- Adjustable throttle cut/idle down
- Condition hold
- 0.5% settings increments
- Variable/exponential rate single switch option
- Additional features: elapsed time counter; dual, independent up/down timers; quad bearing gimbals; sticks w/length tension adjustments; heavy-duty switch harness; neck strap; Tx and Rx batteries; charger and charge jack
- *A 1GB SD card is required for maximum memory capacity. SD card sold separately.

	Stock #	System	Band	Receiver	Tx NiMH	Rx NiCd	Mode	Tx Module
	FUTK9275	12FGA FASST	2.4GHz	R6014FS	1700mAh	1500mAh	2	TM-14
ble in Mode 1	FUTK9276	12FGH FASST	2.4GHz	R6014FS	1700mAh	1500mAh	2	TM-14

futaba-rc.com

Also availa

SPECTRUM TECHNO

2.4GHZ

IOCG IO-Channel Computer System

Pro-level features at a sport-system price.

The **10CG** is perfect for the price-conscious pilot — an integrated, 2.4GHz treasure trove of features formerly found only on the most advanced Futaba systems.

But it's also a system that boasts advantages few others can claim: 7-*point* throttle and pitch curves; 4 heli flight modes; a round dozen factory-defined glider mixes; graphics for programming swash plate types; swash ring; and *logic switches* that allow you to activate a timer or other function just by changing the positions of specific sticks or switches.

10CG System Overview

- Dial 'n Key[™] programming w/joystick
- Airplane, heli and glider software
- 2048 resolution
- Real-Time Response[™]
- Smart Switch Technology[™]
- Basic & advanced menus
- 15-model memory, expandable to 48 models*
- 10-character model & user naming
- Assignable switches & dials/functions
- Model select, copy, re-set
- Data transfer
- 2 proportional slider switches
- Fail-safe, sub-trims, servo reversing & EPA
- Digital trims & trim step, expo & dual/triple rates
- 160 x 72 backlit LCD w/ adjustable contrast
- Servo monitor display
- *Requires optional 128K CAMPac Module (FUTM9408)

- Auxiliary channel screen for 1-step function/ switch assignment
- Model & system timers
- Full functionality trainer system (cord required)
- Throttle cut, hold & idle down
- Mode 1-4 selectable
- Sticks w/length and tension adjustments

Airplane Features

- 8 programmable mixes, plus
- Elevator/Flap; throttle needle; aileron differential; flaperons; V-tail; elevon; and air brake w/elevator delay
- Ailevator; 4-position snap roll switch; 2 independent gyro settings; 7-point throttle curve; and flap trim

Heli Features

• 6 programmable mixes, plus

Futaba

 Hover/pitch; hover throttle; 8 swash plate types w/graphics; swash AFR; 5-point revo mixing; gyro menu; 7-point throttle & pitch curves w/ delay; high/low pitch setting; swash ring; and throttle hold & 3 idle-ups w/delay

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Glider Features

EASST

- 8 programmable mixes, plus
- Butterfly/elevator (2); elevator/flap; chamber mix; aileron/flap; aileron/rudder; flaperons; V-tail; and 4-point offset;

READ SPECTRUM TECHNOLOG

• Spoiler mix; single/dual flap servos; 5 flight conditions; 3 wing types; and adjustable motor cut

Stock #	System	Band	Receiver	Tx NiCd	Rx NiCd	Mode	Tx Module
FUTK9255	10CGA FASST	2.4GHz	R6014HS	700mAh	600mAh	2	—
FUTK9256	10CGH FASST	2.4GHz	R6014HS	700mAh	1000mAh	2	—
FUTK9257	10CGA FASST	2.4GHz	R6014HS	700mAh	600mAh	1	—
FUTK9258	10CGH FASST	2.4GHz	R6014HS	700mAh	1000mAh	1	—
FUTJ9150+	10CA	72HMz	R3110DPS	700mAh	—	2	TP-FSM*
FUTJ9151+	10CH	72HMz	R3110DPS	700mAh	_	2	TP-FSM*
Legend: $+ = 3$	Legend: + = Synthesized; * = Modular						

2.4gigahertz.com

7C 7-Channel FASST Computer Systems

Programming simplicity meets 2.4GHz safety and sophistication.

Simply rotating and pressing a dial walks you clearly and logically through 7C programming — where basic menus cut set-up time to the bare minimum, and advanced menus get maximum performance from every flight.

You also enjoy the confidence of flying with all the advantages of FASST signal security: Easy Link[™] Tx/Rx linking, Continuous Channel Shifting, patented Pre-Vision[™] data screening and Dual Antenna Diversity.

Choose the 7C instead of a standard 6-channel system and you gain more than another channel. You move up to new levels of simplicity, safety and sophistication.

7C System Overview

- Airplane and heli software
- Basic and advanced menus
 Dial n' Key™ programming
- 10-model memory
- 6-character model naming
- Model copy
- Assignable switches/functions
- Endpoint adjustment (EPA), sub-trims and servo reversing
- Digital trims, memory and trim step
- Dual or triple rates and exponential
- Adjustable throttle cut
- Battery and throttle fail-safes
- 72 x 32 LCD w/adjustable contrast
- Variable rate knob
- Trainer system (cord required)
- Sticks with adjustable length and tension
- Count-up/countdown timer
- Low-battery, mixing and RF alerts

Airplane Features • 3 programmable mixes, plus

- Flaperon
- Elevator/flap
- Flap/elevator
 - V-Tail/elevon
 - Aileron/rudder
- Snap roll
- Ailevator (dual elevator servos)
- Air brake
- Flap trim (dual aileron servos)

Helicopter Features

• 3 programmable mixes, plus

Governor mixing

Gyro menu

futaba-rc.com

- Revo mixing
 Swash/throttle mixing
 - 5-point throttle & pitch curves w/2 idle ups
 - Hovering throttle/pitch
- Throttle hold
- Trim offset (aileron/elevator/rudder)
- 6 swash plate types (5 CCPM options)
- Swash AFR

Stock #	System	Band	Receiver	Servo(s)	Tx NiCd	Rx NiCd	Mode
FUTK7000	7CA FASST	2.4GHz	R617FS	(4) \$3152	600 mAh	600 mAh	2
FUTK7001	7CH FASST	2.4GHz	R617FS	(4) S3152	600 mAh	1000 mAh	2
FUTK7002	7CA FASST	2.4GHz	R617FS	(4) \$3004	600 mAh	600 mAh	2
FUTK7003	7CH FASST	2.4GHz	R617FS	(4) S3001	600 mAh	1000 mAh	2
FUTK7004	7CA FASST	2.4GHz	R617FS	—	600 mAh	—	2
FUTK7005	7CH FASST	2.4GHz	R617FS	_	600mAh	_	2

6EX 6-Channel 2.4GHz

Computer Systems

R/C's best buy in a 6-channel computer radio.

From simple programming for first-timers to excellent versatility for old pros, the 6EX is one system that virtually any pilot will enjoy flying with. And when you factor in all of the advantages of 2.4GHz technology, it's easy to see why the 6EX is a great radio at a great price.

6EX Overview

- 6-model memory
- 4-character model naming
- Simple 1 lever/2 button programming
- Airplane and heli software
- LCD
- Digital trims
- · EPA and servo reversing
- Dual rates & exponential (ail/ele/rud)
- · Single-switch control of dual rates and ехро
- Throttle and battery fail-safe
- Mode 1-4 selectable
- · Adjustable throttle cut
- · Flap switch
- · Retract switch
- · Dual-rate switch
- Tx NiCd & dual output charger
- · Low battery and mixing alarms
- Adjustable stick length
- Trainer system (cord required)



Airplane Menu

- 2 programmable mixes
- 4 factory-defined mixes
- Flaperon
- V-tail mixing
- Flap trim
- Elevon mixing

Helicopter Menu

• 9 factory-defined mixes

- Throttle hold

- Gyro mixing

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

and 120° CCPM)

- Swash ARF (plus 90° and 120° CCPM) - Mixing alert
- Stock # System Band Receiver Servo(s) Tx NiCd **Rx NiCd** FUTK6900 6EXA/H FASST 2.4GHz R617FS 600mAh FUTK6901 6EXA FASST 2.4GHz R617FS (4) S3004 600mAh 600mAh FUTK6902 6EXH FASST 2.4GHz R617FS (4) S3001 600mAh 1000mAh

4PK 4-Channel Computer System

Form and function combine to create the ultimate racer's radio: the 2.4GHz 4PK. Its ergonomic design provides the extra comfort you need to tackle grueling mains, and a rear-mounted, backlit LCD lets you monitor race progress. Benefits such as cutting-edge 2048 resolution, FASST dependability and an Advanced Positioning Adapter for fine-tuning your preferred "feel" ensures that the 2.4GHz 4PK is the system you need to stay a lap ahead of the competition.

4PK System Overview

- 40-model memory
- 10-character model naming
- Assignable switches & dials/ functions
- Assignable 3rd and 4th channels
- Customizable menus/functions: New Driver (22)/Race-Ready (30)/ Expert (36)/'Big Car' (28)
- 2 programmable mixes
- 2048 resolution
- ESC Link
- 2 conditions
- · Servo Monitor Display
- Direct select (for up to 8 features)
- Model copy, re-set
- Data Transfer
- Digital trims
- Sub-trims, servo reversing and EPA
- Steering speed, expo, dual rates (2) and tension

- Throttle VTR, acceleration, speed, expo, mode and 5-point curve
- Electronic and mechanical ATL (brake side only)
- ABS braking w/adjustable return, pulse cycle and delay settings
- Advanced Positioning Adapter (APA)
- Adjustable trigger location
- Fail-safe & battery fail-safe
 Power-off, mixing and high/low voltage alarms
- Brake mixing
- Boat mode
- Idle up
- Vibrating alert system
- Backlit LCD screen with adjustable contrast and backlight on/off
- Up/down, fuel, system & lap timers (100-lap memory)
- Start function/engine cut
- Right-/left-hand use
- Servo response mode

FUTM5540 FUTM5541	Short Drop Down Angle Adapter
FUTM5542	Screen Protector
FUTP1012	Metal Carrying Case

Stock #SystemBandReceiverTx NiMHFUTK49004PK FASST2.4GHzR604FS1700mAh



TAPK DIGITIAL PROPORTIONAL R/C SYSTEM FILLED

3-Channel Computer Systems

2 choices in unmatched versatility.

Their differences are obvious, but the advantages are virtually identical. You can tailor setups with menus, store

them in memory, assign a function to the 3rd channel — and create NAME AND ADDRESS. two custom mixes all your own. With it all, you get the unique advantages of FASST 2.4GHz technology: incredible resolution; spectacular speed; and almost unlimited flexibility. Available in the competitionquality 3PKS pistol and the 3VCS for modelers who prefer the feel of a 2-stick system.

3PKS & 3VCS

Features

- 2 programmable mixes
- Assignable 3rd channel
- Assignable switches & dials/functions
- Digital trims and dials
- Backlit LCD w/adjustable contrast
- Model copy, clear and re-set
- 10-character model naming
- ESC Setup for direct programming of ESCs
- Direct Select for fast access to the features you use most
- Servo Monitor Display
- Capable of FM/PPM, HRS and 2.4GHz operation
- Sub-trims, servo reversing and EPA
- Throttle expo, VTR, 5-point curve start, acceleration & mode select
- Steering expo, dual rates 1 and 2

Adjustable servo speed on throttle and steering

3PKS

- Idle-up
- Traction control
- Mechanical and electronic ATL

MAGNUM

- ABS Braking w/on/off and adjustable return, pulse cycle and delay
- Fail-safe and battery fail-safe (in HRS, PCM & FASST modes)
- Independent front/rear brake mixing w/ delay

Also included: up/down, system and lap timers; 99-lap memory; alarm w/selectable tones; 7-LED status monitor; tilt mixing (boats); and DSC (cord sold separately).

3PKS Specifics

• Customizable Menus/Functions: New Driver (22), "Race-Ready" (30), "Expert" (36) and "Big Car" (28)

Futaba

- Expandable 20-model memory*
- APA (Advanced Positioning Adapter)
- Also: vibrating alert system; adjustable wheel tension; right-/left-hand use; Tx NiCd and charger.

FUTM9405CAMPac 8 Data Module16KFUTM55473PK Large Hand GripFUTM14689.6V 1100mAh NiCd Tx Batt

Stock # System Band Receiver Tx NiCd Tx Module FUTK2015 3PKS FASST 2.4GHz R603FS 700mAh PK-FSM2.4G FUTK3000 3VCS FASST 2.4GHz R603FS — PK-FSM2.4G

3VCS

3VCS Specifics

CAMPac

- Customizable Menus/Functions: New Driver (12), "Race-Ready" (24) and "Expert" (35)
- Expandable 10-model memory*
- Adjustable stick tension & angle
- * Optional 16K CAMPac module stores 10 additional memories

FUTK3000 | 3VCS FASST | 2.4GHz | R603FS

2 options in **2.4GHz** affordability.

FASST 2.4GHz technology, computer control and three-channel versatility all make the 3PM the ideal upgrade radio

for stepping up from the 2-channel systems included with many ready-to-run vehicles. A long list of features and six programmable switches help you finetune model performance to suit any track condition or driving style. Like the 3PM, the 3GR-FS is dedicated to 2.4GHz — and it offers virtually every feature of the 3PM in the stick radio layout many modelers prefer. For airplane pilots wanting to race cars, trucks and boats, it offers familiarity plus the speed and precision of FASST technology.

3PM

3PM & 3GR-FS

Features

- 1 programmable mix
- 10-model memory
- Model naming
- Assignable switches/functions
- Assignable 3rd channel
- Digital trims
- Model copy and re-set
- Modulation mode select
- Sub-trims, servo reversing and endpoint adjustment
- Throttle expo, mode select and acceleration

- Steering expo, dual rates and servo speed
- Throttle and battery fail-safes
- ABS braking with return, pulse cycle and delay
- Brake mixing for larger models
- Electronic ATL
- 2 Conditions
- Up/down timer w/100-lap memory
- Low battery alarm
- Charge Jack (for optional NiCd)

3PM Specifics

• Wheel tension adjustment

uta ba

- Mechanical/Electreonic ATL
- Set-up instructions for Traxxas[®] T-Maxx[®] and HPI Racing[®] Savage[™] trucks

3GR-FS Specifics

3GR-FS

- · Stick length adjustment
- Throttle mode select
- Compatible with the optional R603FS receiver to allow for Dual Antenna Diversity

Stock #	System	Band	Receiver
FUTK2020	3PM FASST	2.4GHz	R603FF
FUTK3010	3GR-FS FASST	2.4GHz	R603FF

2.4GHz FASST Receivers

Choose from a large selection — all of them compact, with no-hassle installation!

- FASST receivers are easy to install, and do not require additional "satellite" receivers — one compact, lightweight component does it all
- FASST receivers do away with separate binding plugs that can be misplaced
- From the smallest park flyer to the largest scale giant, there's a FASST receiver that's perfect for your aircraft, car or boat!







 R616FFM
 6-Channel Micro Park Flyer

 Dimensions:
 1-1/2 x 7/8 x 1/4 in (39 x 23 x 8 mm)

 Weight:
 0.22 oz (6.3 g); Weight w/o case: 0.14 oz (4.0 g)

 FUTL7626
 FUTL7626



For receiver compatibility, please turn to page 22.



 Binensions:
 1-9/16 x 1-1/16 x 3/8 in (42 x 28 x 9 mm)

 Weight:
 0.33 oz (9.32 g); Weight w/o case: 0.22 oz (6.37 g)

 FUTL7627





- The quick and easy way to get the receiver and servos you want
- Ideal for anyone who wants to use one transmitter with multiple models
- The most popular combinations for surface and air systems in one convenient, money-saving package!



	FASSTPaks - Air							
Stock #	Receiver	Servo(s)	Nicd	Switch Harness	Aileron Extension			
FUTL1160	R616FFM	(3) S3114M						
FUTL1161	R616FFM	(3) S3157M						
FUTL1162	R617FS	(3) S3114						
FUTL1163	R617FS	(3) S3157						
FUTL1170	R617FS	(4) \$3004	4.8V 600 mAh	•	•			
FUTL1171	R617FS	(5) S3001	4.8V 1000 mAh	•	٠			
FUTL1172	R6008HS	(4) \$3004	4.8V 600 mAh	•	•			
FUTL1173	R6008HS	(4) S3151	4.8V 1000 mAh	•	•			



	FAS	STPaks - Surface	
Stock #	Receiver	Servo(s)	Switch Harness
FUTL1120	R603FF	(2) \$3004	•
FUTL1121	R603FF	(2) S3010	•
FUTL1130	R603FS	(1) \$9452	
FUTL1131	R603FS	(1) \$9350	
FUTL1132	R603FS	(1) BLS451	
FUTL1133	R603FS	(1) BLS452	
FUTL1140	R603FS	(2) \$9351	•
FUTL1141	R603FS	(2) BLS351	•
FUTL1143	R603FS	(1) BLS351 (1) BLS352	•





 R603FS
 3-Channel Surface

 Dimensions:
 1-1/2 x 1 x 9/16 in (39 x 26 x 14 mm)

 Weight:
 0.5 oz (14 g)

 FUTL7630
 5 oz (14 g)







Brushless Servos

The first — and still the best...

In 2007, Futaba introduced its first brushless servo, the BLS251. We were the first brand to combine the benefits of digital (improved precision, resolution, accuracy and holding power) with the benefits of brushless motors (longer-lasting, vibration-resistant, more efficiency and less maintenance).

In just two years' time, that single servo has expanded to 16 cuttingedge servo choices. And if you want further proof of our commitment to being first, we're already introducing our *second* generation of brushless servos. Futaba brushless servos: the first – and still the best.

...Outlasts brushed servos 5:1!

Mini/Micro



BLS1	53 Mini Air	
Volts	Torque	Speed
4.8V	67 oz-in (4.8 kg/cm)	0.15 sec/60°
6.0V	—	—
Dimen	sions	Weight
1-3/8 (36 x	x 9/16 x 1-1/8 in 15 x 29 mm)	1.1 oz (30 g)
FUTM	0513 2BB	BLS



BLS257 Mini Heli							
Volts	Torque	Speed					
4.8V	31 oz-in (2.2 kg/cm)	0.07 sec/60°					
6.0V	—	—					
Dimer	sions	Weight					
1-3/8 x 9/16 x 1-1/8 in (36 x 15 x 29 mm)		1.1 oz (30 g)					
FUTM	0 527 2BB	BLS					



BLS6	51 Mini Car			
Volts	Torque	Sp	beed	
4.8V	—		_	
6.0V	85 oz-in (6.1 kg/cm)	0.	12 sec/60°	
Dimen	sions	Weight		
1-3/8 (36 x	x 9/16 x 1-1/8 in 15 x 29 mm)	1.	1 oz (30 g)	
UTM	D567 2BB		BLS	

Brushless benefits:

- 30% faster response times
- Greater resistance to jolts and vibration
- Smoother operation thanks to dual bearings and strong Samarium Cobalt magnets
- · Same power consumption as brushed digital servos
- Same compact case size as standard servos
- Exceptionally durable geartrain

Specialty



BLS	BLS154 Low-Profile Aileron						
Volts	s Torque		Speed				
4.8\	/ 97 oz-in (7.	0 kg/cm)	0.14 sec/	60°			
6.0\	/	_	_				
Dim	ensions		Weight				
1-7/ (48	/8 x 1-1/16 x 1 x 27 x 25 mm)	in	2.1 oz (58	8 g)			
FUTI	M0514	2BB	WP BLS	5			

0.06 sec/60

2.2 oz (61 a)



-	
200	BLS251 Heli Rudder
	Volts Torque
	4.8V 53 oz-in (3.8 kg/cr
	6.0V —
	Dimensions
	1-9/16 x 13/16 x 1-7/16 (40 x 20 x 37 mm)
/	FUTM0521





BLS254	Heli	Rudder
DLULUT	TIGH	nuuuuu

Volts	Torque	Speed
4.8V	53 oz-in (3.8 kg/cm)	0.06 sec/60°
6.0V	—	—
Dimen	sions	Weight
1-9/1 (40 x	1.9 oz (54 g)	
FUTM	0 524 2BB	WP BLS

BLS551 Low-Profile Car						
Volts	Torque	Speed				
4.8V		—				
6.0V	128 oz-in (9.2 kg/cm)	0.10 sec/60°				
Dimen	sions	Weight				
1-9/10 (41 x)	6 x 13/16 x 1in 20 x 25 mm)	1.6 oz (44 g)				
FUTM	0564 2BB 1	MG WP BLS				

BB = Ball Bearing MG = Metal Gear WP = Water Protected BLS = Brushless Motor MCC = Metal Center Ca



Standard









BLS1	52 Super High-Toro	ue Air
Volts	Torque	Speed
4.8V	_	_
6.0V	431 oz-in (31.0 kg/cm)	0.14 sec/60°
Dimen	sions	Weight
1-9/1 (41 x	6 x 13/16 x 1-1/2 in 21 x 38 mm)	2.6 oz (73 g)
FUTM	0512 2BB !	/IG WP BLS MO

BLS151 Standard Air Volts Torque

 Dimensions

 1-9/16 x 13/16 x 1-3/8 in (40 x 20 x 35 mm)

 FUTM0511
 2'

6.0V

4.8V 122 oz-in (8.8 kg/cm) 0.15 sec/60

2BB

Speed

1.6 oz (46 g) WP BLS

4.8V — — 6.0V 250 oz-in (18.0 kg/cm) 0.15 sec/60° Dimensions Weight 1-9/16 x 13/16 x 1-7/16 in 2.3 oz (64 q)	Volts	Torque	Speed
6.0V 250 oz-in (18.0 kg/cm) 0.15 sec/60° Dimensions Weight 1-9/16 x 13/16 x 1-7/16 in 2.3 oz (64 a)	4.8V	_	_
Dimensions Weight 1-9/16 x 13/16 x 1-7/16 in 2.3 oz (64 a)	6.0V	250 oz-in (18.0 kg/cm)	0.15 sec/60°
1-9/16 x 13/16 x 1-7/16 in 2.3 oz (64 g)	Dimer	isions	Weight
(40 x 20 x 37 mm)	1-9/1 (40 x	6 x 13/16 x 1-7/16 in 20 x 37 mm)	2.3 oz (64 g)

BLS252 F3C Heli

Ĩ	Volts	Torque		Sp	eed		
	4.8V	139 oz-in (10.0 kg	J/cm)	0.	16 s	ec/6	i0°
	6.0V	175 oz-in (12.6 kg	J/cm)	0.	13 s	ec/6	i0°
	Dimen	isions		W	eight		
	1-9/1 (40 x	6 x 13/16 x 1-7/16 20 x 37 mm)	in in	2.	1 oz	(58	g)
	FUTM	0522	2BB I	MG	WP	BLS	



BLS253 3D Heli						
Volts	Torque	Speed				
4.8V	117 oz-in (8.4 kg/cm)	0.13 sec/60°				
6.0V	147 oz-in (10.6 kg/cm)	0.10 sec/60°				
Dimen	sions	Weight				
1-9/1 (40 x	6 x 13/16 x 1-1/2 in 20 x 37 mm)	2.0 oz (58 g)				
FUTM	0523 2BB M	MG WP BLS				



BLS351 High-Torque

Volts	Torque	Speed
4.8V	173 oz-in (12.5 kg/cm)	0.16 sec/60°
6.0V	217 oz-in (15.6 kg/cm)	0.13 sec/60°
Dimen	sions	Weight
1-9/1 (40 x	6 x 13/16 x 1-3/8 in 20 x 37 mm)	2.2 oz (63 g)
FUTM	0551 2BB M	MG WP BLS MCC



BLS451 High-Speed

Volts	folts Torque Speed						
4.8V	118 oz-in (8.5 kg/	cm)	0.	0.13 sec/60°			
6.0V	147 oz-in (10.6 kg	j/cm)	0.	0.10 sec/60°			
Dimensions		We	Weight				
1-9/16 x 13/16 x 1-7/16 in (40 x 20 x 37 mm)			2.	1 oz	(58	g)	
UTM	0552	2BB	MG	WP	BLS		



BLS452 High-Torque EP Car

Volts	Torque		Sp	eed		
4.8V	156 oz-in (11.2 kg	ı/cm)	0.	18 s	ec/6	0°
6.0V	194 oz-in (14.0 kg	ı/cm)	0.14 sec/60°			0°
Dimen	sions		We	eight		
1-9/10 (40 x	6 x 13/16 x 1-7/16 20 x 37 mm)	i in	2.	1 oz	(58	g)
FUTM	0553	2BB N	ЛG	WP	BLS	



BLS352 High-Torque

olts	Torque	Speed
4.8V	200 oz-in (14.4 kg/cm)	0.19 sec/60°
5.0V	250 oz-in (18.0 kg/cm)	0.15 sec/60°
Dimen	sions	Weight
1-9/10 40 x 3	6 x 13/16 x 1-7/16 in 20 x 37 mm)	2.2 oz (63 g)
UTM	0554 2BB	MG WP BLS MCC

DIGITAL

Digital Servos

The Digital Decade

When we introduced digital servos in 1999 we weren't trying to start a revolution. We were just trying to give competitive pilots and drivers a performance edge

Digital servos were the answer — and their higher pulse rate was the key. It means that digital servos will respond five times before an analog servo can respond even once. Deadband virtually disappears and resolution increases. As a result, digital servos respond faster, hold stronger and center more accurately than the analog servos you've used in the past. The S9250 and S9450 have been retired, but they've been replaced by a line-up of almost three dozen next-gen digitals. New models include micros with metal gears and giant-scale workhorses. Specialized servos for heli rudders, ailerons and gyros, as well as all-purpose servos and sport servos. Tiny, 7.9 g minis with 21 ounce-inches of torque as well as standard servos that deliver 425 ounce-inches of torque in just fourteen hundredths of a second.

For revolutionary response and power — Futaba digital servos.

Standard

Mini/Micro

ð	Satistical Signa Wing Volts Torque Speed 4.8V 51 oz-in (3.7 kg/cm) 0.24 sec/60° 6.0V n/a n/a Dimensions Weight 1-3/16 x 1-7/16 x 1-1/8 in (30 x 11 x 29 mm) 0.81 oz (23 g) UTM0303 2BB MG 3P	S3153/MG Micro Volts Torque Speed 4.8V 19 oz-in (1.4 kg/cm) 0.13 sec/60° 6.0V 24 oz-in (1.7 kg/cm) 0.11 sec/60° Dimensions Weight 7/8 x 3/8 x 1-13/16 in (22 x 11 x 20 mm) 0.38 oz (11 g) FUTM0652 BB MG 3P		S3050 High-Torque Standard Volts Torque Speed 4.8V /2 oz-in (5.2 kg/cm) 0.20 sec/60° 6.0V 90 oz-in (6.5 kg/cm) 0.16 sec/60° Dimensions Weight 1-9/16 x 3/8 x 1-1/2 in (40 x 20 x 38 mm) 1.7 oz (49 g) FUTM0300 2BB MG 3P
N	Sat53 Micro Volts Torque Speed 4.8V 19 oz-in (1.4 kg/cm) 0.12 sec/60° 6.0V 24 oz-in (1.7 kg/cm) 0.10 sec/60° Dimensions Weight 7/8 x 3/8 x 1-13/16 in (22 x 11 x 20 mm) 0.34 oz (9.6 g) FUTM0653 BB 3P	S3154 High-Torque High-Speed Micro Volts Torque Speed 4.8V 21 oz-in (1.5 kg/cm) 0.10 sec/60° 6.0V 24 oz-in (1.7 kg/cm) 0.09 sec/60° Dimensions Weight 7/8 x 3/8 x 1-13/16 in (22 x 11 x 20 mm) 0.28 oz (7.9 g) FUTM0654 3P		S3152 High-Torque Volts Torque Speed 4.8V 70 oz-in (5.0 kg/cm) 0.22 sec/60° 6.0V 88 oz-in (6.3 kg/cm) 0.18 sec/60° Dimensions Weight 1-9/16 x 3/8 x 1-1/2 in (40 x 20 x 38 mm) 1.5 oz (41 g) FUTM0311 BB 3P
No.	Sat55 High-Speed Slim Volts Torque Speed 4.8V 28 oz-in (2.0 kg/cm) 0.16 sec/60° 6.0V n/a n/a Dimensions Weight 1-3/16 x 1-7/16 x 1-1/8 in 0.72 oz (20 g) FUTM0655 2BB MG 3P	S3156MG Micro Volts Torque Speed 4.8V 28 oz-in (2.0 kg/cm) 0.13 sec/60° 6.0V 33 oz-in (2.4 kg/cm) 0.11 sec/60° Dimensions Weight 7/8 x 3/8 x 7/8 in (22 x 11 x 22 mm) 0.32 oz (9.3 g) FUTM0656 BB MG 3P		Speed Volts Torque Speed 4.8V 153 oz-in (11.0 kg/cm) 0.16 sec/60° 6.0V 192 oz-in (13.8 kg/cm) 0.13 sec/60° Dimensions Weight 1-9/16 x 3/8 x 1-7/16 in (40 x 20 x 37 mm) 2.2 oz (61 g) FUTMO215 2BB MG WP CM MCC
Õ	S3157 High-Torque High-Speed Micro Volts Torque Speed 4.8V 21 oz-in (1.5 kg/cm) 0.10 sec/60° 6.0V 24 oz-in (1.7 kg/cm) 0.09 sec/60° Dimensions Weight 7/8 x 3/8 x 7/8 in (22 x 11 x 23 mm) 0.29 oz (8.3 g) FUTM0657	S3157M Micro w/Micro Plug Voits Torque Speed 4.8V 21 oz-in (1.5 kg/cm) 0.10 sec/60° 6.0V 24 oz-in (1.7 kg/cm) 0.09 sec/60° Dimensions Weight 7/8 x 3/8 x 7/8 in (22 x 11 x 23 mm) 0.28 oz (7.8 g) FUTM0705 3P		Speed Volts Torque Speed 4.8V 76 oz-in (5.5 kg/cm) 0.11 sec/60° 6.0V n/a n/a Dimensions Weight 1-5/8 x 1-13/16 x 1-1/2 in (41 x 20 x 38 mm) 1.9 oz (54 g) EUTMO220
ð	S9070 Programmable Mini Volts Torque Speed 4.8V 63 oz-in (4.5 kg/cm) 0.18 sec/60° 6.0V 76 oz-in (5.5 kg/cm) 0.15 sec/60° Dimensions weight 1-3/8 x 3/8 x 1in (36 x 20 x 25 mm) 1.1 oz (32 g) FUTM0150 2BB MG CM	Seeds Mini Volts Torque Speed 4.8V 50 oz-in (3.6 kg/cm) 0.14 sec/60° 6.0V 63 oz-in (4.5 kg/cm) 0.11 sec/60° Dimensions Weight 1-3/8 x 9/16 x 1-1/8 in (36 x 15 x 29 mm) 0.92 oz (26 g) FUTM0260 28B CM		S9350 High-Torque Volts Torque Speed 4.8V 111 02-in (8.0 kg/cm) 0.15 sec/60° 6.0V 139 02-in (10.0 kg/cm) 0.12 sec/60° Dimensions Weight 1-5/8 x 1-13/16 x 1-7/16 in (40 x 20 x 37 mm) 2.2 oz (61 g) FUTM0235
	BB = Ball Bearing MG = Metal Gear WP :	= Water Protected CM = Coreless Motor 3P = 3-pole Motor	5P = 5-pole Motor	MCC = Metal Center Case



The S9250 (and its surface counterpart, the S9450) gave modelers a first look at what digital servos could do.



S3151 Sport Volts Torque 4.8V 43 oz-in (3.1 kg/cm) 0.21 sec/60

6.0V	n/a		n/	a		
Dimen	sions		Weight			
1-9/10 (41 x 2	6 x 3/8 x 1-7/16 i 20 x 36 mm)	n	1.5 oz (42 g)		g)	
FUTM	0310	BB			3P	

Speed

1.8 oz (50 g)

WP CM

0.14 sec/60°

1.8 oz (50 g)

n/a

Weiaht

2BB MG WP CM

eed

2.2 oz (61 g)

2BB MG WP CM MC

n/a

2BB



S9156 High-Torque Air

Its Torque 4.8V 92 oz-in (6.6 kg/cm)

nsions

olts Torque

UTM0236

1-5/8 x 1-13/16 x 1-7/16 in (40 x 20 x 37 mm)

4.8V 153 oz-in (11.0 kg/cm) 0.16 sec/60° 6.0V 192 oz-in (13.8 ka/cm) 0.13 sec/60°

S9351 High-Torque

1-5/8 x 1-13/16 x 1-7/16 in (40 x 20 x 37 mm)

5.0V n/a

33130 High-Torque All					
Volts	Torque	Speed			
4.8V	272 oz-in (19.6 kg	J/cm) 0.21 sec/60°			
6.0V	340 oz-in (24.5 kg	J/cm) 0.17 sec/60°			
Dimer	isions	Weight			
1-9/16 x 3/8 x 1-7/16 in (40 x 20 x 37 mm)		2.2 oz (63 g)			
	0016	OPP MC WD CM MCC			





Large/Specialty

Volts Torque

Dimensions 1-15/16 x 1 x 1-9/16 in (49 x 25 x 40 mm)

FUTM0212

Volts Torque

6.0V n/a

Dimensions

FUTM0214

Volts Torque

6.0V n/a

Dimensions

FUTM0224

4.8V 64 oz-in (4.6 kg/cm)

4.8V 47 oz-in (3.4 kg/cm)

1-5/8 x 1-13/16 x 1-7/16 in (40 x 20 x 37 mm)

1-7/8 x 1-1/16 x 1 in (48 x 27 x 25 mm)

S9152 Mega High-Torque

4.8V 222 oz-in (16.0 kg/cm) 0.23 sec/60°

6.0V 278 oz-in (20.0 kg/cm) 0.19 sec/60°

S9154 High-Speed Low-Profile Aileron

S9254 High-Torque High-Speed Heli

Speed

3.0 oz (85 g)

2BB MG WP CM MCC

Speed

n/a

Weigh

Speed

n/a

Weig

0.14 sec/60°

1.9 oz (53 g)

WP CM

0.06 sec/60°

1.7 oz (49 g)

WP CM













l	4.8V	125 oz-in (9.0 kg/	'cm)	0.16 sec/60°	
	6.0V	n/a		n/a	
	Dimen	sions		Weight	
	1-5/8 x 1-13/16 x 1-7/16 in (40 x 20 x 37 mm)			1.9 oz (55 g)	
	UTM0225 2BB MG WP CM				

\$5050 High-Torque

	• .	
Volts	Torque	Speed
4.8V	211 oz-in (15.2 kg/cm)	0.25 sec/60°
6.0V	264 oz-in (19.0 kg/cm)	0.20 sec/60°
Dimer	sions	Weight
2-5/1 (59 x	6 x 1-18 x 1-15/16 in 29 x 50 mm)	4.5 oz (127 g)
FUTM	0255 2BB 1	NG WP CM

		etract	ry Gear F	OG Planetary	S317
		Speed		Torque	Volts
Sur.		0.57 sec/60°	kg/cm)	94 oz-in (7.0 kg	4.8V
E.	655	0.47 sec/60°	kg/cm)	118 oz-in (8.5 l	6.0V
11/	1	Neight		sions	Dimen
		0.9 oz (26 g)		x 5/8 x 1 in 16 x 26 mm)	1-3/8 (35 x
-		G 3P	2BB N	0671	FUTM
		0.9 oz (26 g) G 3P	2BB N	16 x 26 mm) 0671	(35 x) FUTM

S9150 Low-Profile Aileron

Volts	Torque		Speed			
<u>4</u> .8V	81 oz-in (5.8 kg/c	m)	0.	0.18 sec/60°		
<u>6</u> .0V	n/a		n/	n/a		
Dimen	sions		Weight			
1-7/8 (48 x 3	x 1-1/16 x 1 in 27 x 25 mm)		1.9 oz (53 g)			g)
FUTM	0210	2BB WP CM				

S9153 High-Torque High-Speed								
Volts Torque Speed								
4.8V	4.8V 167 oz-in (12.0 kg/cm) 6.0V 208 oz-in (15.0 kg/cm)			0.18 sec/60° 0.15 sec/60°				
6.0V								
Dimen	sions		Weight					
1-15/16 x 1 x 1-9/16 in (49 x 25 x 40 mm)			3.	0 oz	(85	g)		
FUTM	2BB	MG	WP	СМ	мсс			

S9251 For GY601/GY611 Gyro

Volts	Torque	Speed
4.8V	51 oz-in (3.7 kg/cm)	0.07 sec/60°
6.0V	n/a	n/a
Dimen	sions	Weight
1-5/8 (40 x	x 1-13/16 x 1-7/16 in 20 x 37 mm)	2.0 oz (57 g)
FUTM	0 221 2BB 1	MG WP CM MCC



4.8V 47 oz-in (3.4 kg/cm) 0.06 sec/60°

S9256 High-Speed for GY601/GY611 Gyro

Speed

	6.0V	n/a		n/	а		
	Dimen	sions		W	eight		
	1-5/8 (40 x 3	x 1-13/16 x ⁻ 20 x 37 mm)	1-7/16 in	2.	0 oz	(57	g)
ĺ	FUTM	0226	2BB	MG	WP	CM	мсс

S9257 EP Heli Rudder

Volts Torque

Volts	Torque	Speed				
4.8V	28 oz-in (2.0 kg/c	m)	0.	0.08 sec/60°		
6.0V	n/a		n/	n/a		
Dimen	sions		Weight			
1-3/8 (36 x	x 9/16 x 1-1/8 in 15 x 29 mm)		0.92 oz (26 g)			6 g)
FUTM	0667	2BB			CM	

S9452 High-Torque High-Speed

	• •	-				
Volts	Torque		Sp	eed		
4.8V	102 oz-in (7.4 kg/cm)		0.	°0		
6.0V	128 oz-in (9.2 kg/	cm)	0.	11 s	ec/6	0°
Dimen	sions		We	eight		
1-5/8 (40 x	-5/8 x 1-13/16 x 1-5/16 in 0 x 20 x 34 mm)			8 oz	(50	g)
UTM	0662	2BB	MG	WP	CM	

S9551 Low-Profile

Volts	Torque		Sp	eed		
4.8V	98 oz-in (7.0 kg/cm)		0.14 sec/60°			°0
6.0V	122 oz-in (8.8 kg/	122 oz-in (8.8 kg/cm)		0.11 sec/60°		
Dimen	sions		We	eight		
1-5/8 (41 x	x 1-13/16 x 1in 20 x 25 mm)		1.	6 oz	(45	g)
FUTM	0661	2BB	MG	WP	СМ	



Analog Servos Power and speed for every R/C application.

For any type of radio-controlled model, Futaba has the ideal servo. That holds true whether the application requires a special size, specific torque 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.



Standard



Mini/Micro



S3111 Micro Volts Torque Speed 1 01/ 0 0 (0.6 kg/cm) 0.12 sec/60°

1.01	0.0 02 11 (0.0 10)	iii)	0.12 000/00				
6.0V	_			_			
Dimen	sions		Weigh	ł			
7/8 x (22 x	7/16 x 3/4 in 11 x 20 mm)		0.23 (oz (6	.3 g)		
FUTM	0047			ЗP			



\$311	1 M Micro w/Mi	cro	Plι	ıg		
Volts	Torque		Sp	eed		
4.8V	8.3 oz-in (0.6 kg/ci	n)	0.	12 s	ec/6	0°
6.0V	—				_	
Dimen	sions		W	eight		
7/8 x (22 x	7/16 x 3/4 in 11 x 20 mm)		0.	22 o	z (6	.3 g)
FUTM	0703				3P	



S3114 High-Torque Micro

Volts	Torque	Sp	beed		
4.8V	21 oz-in (1.5 kg/cm)	0.	10 s	sec/6	60°
6.0V	24 oz-in (1.7 kg/cm)	0.	09 s	sec/6	60°
Dimer	isions	W	eigh	ł	
7/8 x (22 x	7/16 x 3/4 in 11 x 20 mm)	0.	28 (oz (7.	.8 g)
FUTM	0414			3P	



S3115 Precision Micro olts Torque 4.8V 39 oz-in (2.8 kg/cm) 0.15 sec/60° 0V -1/8 x 1/2 x 1-3/16 in 0.60 oz (17 g) (28 x 13 x 30 mm) FUTM0415



S9002 Coreless Mini /olts Torque 1.8V 34 oz-in (2.5 kg/cm) 0.18 sec/60°

6.0V	43 oz-in (3.1 kg/	cm)	0.	14 s	ec/6	°0	
Dimen	sions		W	eight			
1/4 x (31 x	5/8 x 3/16 in 16 x 31 mm)		1.	1 oz	(31	g)	
UTM	0076	2BB			СМ		

BB = Ball Bearing MG = Metal Gear WP = Water Protected



S3102 Micro Aircraft						
Volts	Torque		Sp	eed		
4.8V	51 oz-in (3.7 kg/c	m)	0.1	25 s	ec/6	0°
6.0V	64 oz-in (4.6 kg/c	m)	0.20 sec/60°			0°
Dimer	isions		We	eight		
1-1/8 (28 x	x 1/2 x 1-3/16 in 13 x 30 mm)		0.	74 c)z (2	1 g)
FUTM	0034		MG		3P	

Speed

2BB MG

0.20 sec/60°

1.2 oz (35 g)



S3114M High-Torque Micro w/Micro Plug

	J					
Volts	Torque		Sp	eed		
4.8V	21 oz-in (1.5 kg/ci	m)	0.	10 s	ec/6	°0
6.0V	24 oz-in (1.7 kg/ci	m)	0.	09 s	ec/6	i0°
Dimen	sions		We	eight		
7/8 x (22 x	7/16 x 3/4 in 11 x 20 mm)		0.	26 o	oz (7.	5 g)
FUTM	0704				3P	

S3117 High-Torque Mini/Micro /olts Torque 4.8V 21 oz-in (1.5 kg/cm) 0.10 sec/60° .0V 24 oz-in (1.7 kg/cm) 0.09 sec/60° 7/8 x 7/16 x 15/16 in 0.30 oz (8.5 g (22 x 11 x 23 mm) FUTM0417 3P



CM = Coreless Motor 3P = 3-pole Motor 5P = 5-pole Motor



S300	3 Standard	
Volts	Torque	Speed
4.8V	44 oz-in (3.2 kg/cm)	0.23 sec/60°
6.0V	57 oz-in (4.1 kg/cm)	0.19 sec/60°
Dimer	isions	Weight
1-9/1 (40 x	6 x 3/4 x 1-7/16 in 20 x 36 mm)	1.3 oz (37 g)
FUTM	0031	3P



S3305 High-Torque Standard

Volts	Torque		Sp	eed		
4.8V	99 oz-in (7.1 kg/c	m)	0.1	25 s	ec/6	0°
6.0V	124 oz-in (8.9 kg/	cm)	0.1	20 s	ec/6	0°
Dimen	sions		We	eight		
1-9/1 (40 x	6 x 3/4 x 1-1/2 in 20 x 38 mm)		1.	7 oz	(47	g)
FUTM	0045	2BB I	MG		3P	



SOOO1 Aircraft

0000	Allolan					
Volts	Torque		Sp	eed		
4.8V	54 oz-in (3.9 kg/c	m)	0.	22 s	ec/6	0°
6.0V	72 oz-in (5.2 kg/c	m)	0.	18 s	ec/6	0°
Dimer	isions		We	eight		
1-9/1 (40 x	6 x 3/4 x 1-7/16 ir 20 x 36 mm)	l	1.	7 oz	(48	g)
FUTM	0075	2BB			CM	



S9202 Aircraft olts Torque Speed 4.8V 56 oz-in (4.0 kg/cm) 0.27 sec/60°

	1 0	/
6.0V	69 oz-in (5.0 kg/c	cm) 0.22 sec/60°
Dimen	sions	Weight
1-9/10 (41 x 1	6 x 13/16 x 1-3/8 20 x 36 mm)	in 1.8 oz (50 g)
FUTM	0090	2BB WP CM



S9402 High-Speed							
Volts	Torque		Sp	eed			
4.8V	89 oz-in (6.4 kg/c	m)	0.	12 s	ec/6	0°	
6.0V 111 oz-in (8.0 kg/cm)			0.10 sec/60°				
Dimen	Dimensions			Weight			
1-9/16 x 13/16 x 1-1/2 in (41 x 20 x 38 mm)		1.	9 oz	(55	g)		
FUTM	0102	2BB I	ИG	WP	СМ		

MCC = Metal Center Case



S3001 Standard

2	Volts Torque			Speed					
ľ	4.8V	.8V 33 oz-in (2.4 kg/cm)			0.28 sec/60°				
	6.0V	IV 42 oz-in (3.0 kg/cm)			0.22 sec/60°				
	Dimensions			Weight					
	1-9/16 x 3/4 x 1-7/16 in (40 x 20 x 36 mm)			1.	6 oz	(45	g)		
	FUTM0029 B					3P			

S3004 Standard /olts Torque Speed 4.8V 44 oz-in (3.2 kg/cm) 0.23 sec/60° 6.0V 57 oz-in (4.1 kg/cm) 0.19 sec/60° ensions 1-9/16 x 3/4 x 1-7/16 in (40 x 20 x 36 mm) 1.3 oz (37 g)

3P



S3010	High-Torque

FUTM0004

Volts	Torque	Speed			
4.8V	72 oz-in (5.2 kg/cm)	0.20 sec/60°			
6.0V	90 oz-in (6.5 kg/cm)	0.16 sec/60°			
Dime	nsions	Weight			
1-9/16 x 3/4 x 1-1/2 in (40 x 20 x 38 mm)		1.5 oz (41 g)			
FUTN	BB	3P			



S9102 Low-Profile Aileron

	Volts	Torque	Speed
r	4.8V	40 oz-in (2.9 kg/cm)	0.16 sec/60°
L	6.0V	50 oz-in (3.6 kg/cm)	0.13 sec/60°
	Dimen	sions	Weight
	1-13/ (45 x)	16 x 7/8 x 1 in 23 x 26 mm)	1.6 oz (46 g)
	FUTM	0 087 2BB	WP CM



S9206 High-Torque Heli/Airplane								
Volts	Torque		Sp	eed				
4.8V	132 oz-in (9.5 kg/d	0.5 kg/cm) 0.19 sec/60°			0°			
<u>6</u> .0V	6.0V —			_				
Dimensions				Weight				
1-9/16 x 13/16 x 1-1/2 in (41 x 20 x 38 mm)			1.	9 oz	(53	g)		
FUTM	0115	2BB 1	ИG	WP	СМ			

S9405 High-Torque Volts Torque

2	4.8V	80 oz-in (5.8 kg/c	m)	0.13 sec.
	6.0V	100 oz-in (7.2 kg/	/cm)	0.11 sec.
	Dimen	sions		Weight
	1-9/1 (41 x)	6 x 13/16 x 1-1/2 20 x 38 mm)	in	1.9 oz (5
F	UTM	0098	2BB N	/IG WP CN





	S3802 Sail
2/1	Volts Torque

Volts	s Torque							
4.8V	122 oz-in (8.8 kg/cm)			0.70 sec/60°				
6.0V	/ 153 oz-in (11.0 kg/cm)			0.56 sec/60°				
Dimensions			W	eight				
1-3/4 x 7/8 x 1-11/16 in (44 x 23 x 43 mm)			2.	5 oz	(72	g)		
FUTM	0039	2BB	MG	WP	3P			

S5302 High-Speed 1/4 Scale Volts Torque Speed 4.8V 189 oz-in (13.6 kg/cm) 0.18 sec/60° 6.0V 236 oz-in (17.0 kg/cm) 0.15 sec/60° Dimensions Weight

2-5/16 x 1-1/8 x 1-15/16 in (59 x 29 x 50 mm) 4.4 oz (125 g) FUTM0052 2BB MG WP

FUTM0099	2BB N	۱G
$* = 180^{\circ}$ rotation;	non-proportic	nal



	0		•		
olts	Torque			Speed	
81/	267 07-	in (10.2	ka/cm)	$0.20 sec/60^{\circ}$	

2BB

4.01	207 02-111 (19.2 kg/citi) [0.20 366/00							
6.0V	333 oz-in (24.0 kg/cm)			0.16 sec/60°				
Dimen	sions	We	eight					
2-5/8 x 1-3/16 x 2-1/4 in (66 x 30 x 57 mm)			4.4	4 oz	(120	6 g)		
FUTM	0020	2BB		WP	3P			

S3104 1/4 Scale

4.8V 128 oz-in (9.2 kg/cm)

2-5/16 x 1-1/8 x 1-15/16 in (59 x 29 x 50 mm)

0.21 sec/60°

3.3 oz (95 g)

olts Torque

6.0V

FUTM0036

Dime



Large/Specialty

S136G Compact Retract*

0.60 sec/60°

0.50 sec/60°

1.5 oz (42 g)

WP 3P

0.24 sec/60°

0.19 sec/60°

3.6 oz (103 g) 2BB MG WP 3P

Weight

4.8V 61 oz-in (4.4 kg/cm)

6.0V 76 oz-in (5.5 kg/cm)

Volts Torque

Dimensions

FUTM0670

1-3/4 x 7/8 x 1 in (45 x 23 x 25 mm)

\$3302 1/4 Scale

4.8V 89 oz-in (6.4 kg/cm)

6.0V 111 oz-in (8.0 kg/cm)

olts Torque

sions 2-5/16 x 1-1/8 x 1-15/16 in (59 x 29 x 50 mm)

FUTM0035

53001 High-forque Sali					
Volts	Torque	Speed			
4.8V	156 oz-in (11.2 kg/cm)	0.32 sec/60°			
6.0V	194 oz-in (14.0 kg/cm)	0.26 sec/60°			
Dimen	sions	Weight			
2-5/1 (59 x	6 x 1-1/8 x 1-15/16 in 29 x 50 mm)	3.8 oz (107 g)			
FUTM	2BB M	/IG WP 3P			

\$5301 High-Torque 1/4 Scale

2-5/16 x 1-1/8 x 1-15/16 in (59 x 29 x 50 mm)

 4.8V
 233 oz-in (16.8 kg/cm)
 0.28 sec/60°

 6.0V
 292 oz-in (21.0 kg/cm)
 0.23 sec/60°

Speed

Weight

2BB MG WP 5P

4.4 oz (125 g)

olts Torque

Dimensions

FUTM0051



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• A perfect fit with Futaba equipment — no external wires or cables to get in the way or become disconnected

C.4GAZ

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- · Features easy fail-safe set-up and push-button Easy Link[™] receiver-to-transmitter binding

2.4GHz Modules

 Choose from 5 different modules to convert many Futaba radios — with no transmitter modification required!





R603FS/3PK Tx Mod
R617FS/TM-7
R608FS/TM-8
R6014FS/TM-10
R6014FS/TM-14

		Receivers - Air						
		R6004FF	R616FFM	R607FS	R617FS	R608FS	R6008HS	R6014FS
ers	6EX	•	•	•	•			
	7C	•	•	•	•			
nitt	10C/G	•	•	•	•	•	•	•
Transr	12FG	•	•	•	•	•	•	•
	12Z	•	•	•	•	•	•	•
	14MZ	٠	•	•	•	•	•	•
Modules	TM-7	٠	٠	٠	٠			
	TM-8	•	•	•	•	•	•	•
	TM-10	•	•	•	•	•	•	•
	TM-14	•	•	•	•	•	•	•

	Receivers - Surface				
Transmitters	R603FF	R603FS	R604FS		
3PM	•	٠			
3PKS	•	•			
3VCS	•	•			
3GR	•	•			
4PK	•	•	•		



FUTL8934

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10110320	OFIC
FUTL8927	TM-7
FUTL8928	TM-8
FUTL8930	TM-10
FUTL8934	TM-14

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	Modules				
Transmitters	TM-7	TM-8	TM-10	TM-14	
7U	٠	•			
8U	٠	•			
90	•	•			
9Z	٠	•			
10C	٠	•	•		
12FG				•	
12Z				•	
14MZ				•	

G and GY Series Gyros First-class gyros for first-class pilots.

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GY MEMS Technology

cro ElectroMechanical System

Cutting-edge technology – revolutionary performance!

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All Futaba MEMS and SMM (Silicon Micro Machine) gyros feature AVCS, the most positive form of tail control available. 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.





Putting the future of R/C in your hands for over 47 years.



HEN WE STARTED OUR RADIO-CONTROL DIVISION in 1962, we knew that R/C had a bright future. And over the years, R/C has grown and advanced in ways no one could have imagined then. But while no one can see the future, we knew that we could help *shape* it. To do that, we not only looked for ways to use existing technology better, but actively sought and developed better technology to use.

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