

AIR BAND TRANSCEIVERS

PRODUCT CATALOG



FTA-850L

Bluetooth GPS

MIL-STD-810H



FTA-750L

GPS

MIL-STD-810F



FTA-550L
FTA-550 AA Battery Version

MIL-STD-810F



FTA-450L

MIL-STD-810F



FTA-250L

MIL-STD-810F

Specifications

	FTA-850L	FTA-750L	FTA-550L / FTA-550	FTA-450L	FTA-250L
General					
Frequency Range	TX: 118.000 to 136.9916 MHz RX: 108.000 to 136.9916 MHz (NAV and COM) 161.650 to 163.275 MHz (Weather Channels*1) 329.150 to 335.000 MHz (Glide Slope)	TX: 118.000 to 136.9916 MHz RX: 108.000 to 136.9916 MHz (NAV and COM) 161.650 to 163.275 MHz (Weather Channels*1) 329.150 to 335.000 MHz (Glide Slope)	TX: 118.000 to 136.9916 MHz RX: 108.000 to 136.9916 MHz (NAV and COM) 161.650 to 163.275 MHz (Weather Channels*1)	TX: 118.000 to 136.9916 MHz RX: 118.000 to 136.9916 MHz 161.650 to 163.275 MHz (Weather Channels*1)	TX: 118.000 to 136.9916 MHz RX: 118.000 to 136.9916 MHz 161.650 to 163.275 MHz (Weather Channels*1)
Channel Spacing	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz
Emission Type	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)
Supply Voltage	6.0 to 9.5 VDC	6.0 to 9.5 VDC	6.0 to 9.5 VDC	6.0 to 9.5 VDC	6.0 to 9.5 VDC
Current Consumption (approx.)	300 µA (power off) 125 mA (battery saver on, saver ratio 50 %, GPS on) 160 mA (squelch on, GPS on) 300 mA (receive) 1.1 A (transmit 1.8 W Carrier)	300 µA (power off) 80 mA (battery saver on, saver ratio 50 %, GPS on) 110 mA (squelch on, GPS on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 60 mA (battery saver on, saver ratio 50 %) 80 mA (squelch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 60 mA (battery saver on, saver ratio 50 %) 80 mA (squelch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 70 mA (battery saver on, saver ratio 50 %) 90 mA (squelch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)
Temperature Range	+14°F to +140°F (-10°C to +60°C)	+14°F to +140°F (-10°C to +60°C)	+14°F to +140°F (-10°C to +60°C)	+14°F to +140°F (-10°C to +60°C)	+14°F to +140°F (-10°C to +60°C)
Antenna Connector	BNC Type	BNC Type	BNC Type	BNC Type	BNC Type
Case Size (W × H × D)	2.4" × 5.2" × 1.3" (60 × 132 × 34 mm) with SBR-39LI	2.4" × 5.2" × 1.3" (62 × 133 × 34 mm) with SBR-39LI	2.4" × 5.2" × 1.3" (62 × 133 × 34 mm) with SBR-39LI	2.4" × 5.2" × 1.3" (62 × 133 × 34 mm) with SBR-39LI	2.1" × 4.1" × 1.2" (52 × 105 × 30 mm) with SBR-25LI
Weight (approx.)	13.9 oz (395 g) with SBR-39LI, antenna and belt clip	14.5 oz (410 g) with SBR-39LI, antenna and belt clip	14.5 oz (410 g) with SBR-39LI, antenna and belt clip	14.5 oz (410 g) with SBR-39LI, antenna and belt clip	10.6 oz (300 g) with SBR-25LI, antenna and belt clip
Receiver					
Circuit Type	Double-conversion superheterodyne	Double-conversion superheterodyne	Double-conversion superheterodyne	Double-conversion superheterodyne	Double-conversion superheterodyne
IFs	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz
Sensitivity	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)
Selectivity	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB
Adjacent CH. Selectivity	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB
AF Output (Internal speaker)	0.8 W @ 16 Ohms, 10 % THD	0.8 W @ 16 Ohms, 10 % THD	0.8 W @ 16 Ohms, 10 % THD	0.8 W @ 16 Ohms, 10 % THD	0.7 W @ 16 Ohms, 10 % THD
Transmitter					
Power Output	6.0 W (PEP), 1.8 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)
Frequency Stability	Better than ±1 ppm (+14°F to +140°F [-10°C to +60°C])	Better than ±1 ppm (+14°F to +140°F [-10°C to +60°C])	Better than ±1 ppm (+14°F to +140°F [-10°C to +60°C])	Better than ±1 ppm (+14°F to +140°F [-10°C to +60°C])	Better than ±1 ppm (+14°F to +140°F [-10°C to +60°C])
Modulation System	Low Level Amplitude Modulation	Low Level Amplitude Modulation	Low Level Amplitude Modulation	Low Level Amplitude Modulation	Low Level Amplitude Modulation
Spurious Emission	> 70 dB below carrier	> 70 dB below carrier	> 70 dB below carrier	> 70 dB below carrier	> 70 dB below carrier
Int. Microphone Type	Condenser	Condenser	Condenser	Condenser	Condenser
Ext Mic. Impedance	150 Ohms	150 Ohms	150 Ohms	150 Ohms	150 Ohms

*1 Only available in NOAA weather service areas.

GPS Unit (FTA-850L, FTA-750L)

Receiver Channels	66 Channels
Sensitivity	Less than -147 dBm
Time to First Fix	1 minute typical (@ Cold Start) 5 seconds typical (@ Hot Start)
Geodetic Datum	WGS84

Bluetooth® (FTA-850L)

Version	Version 4.2
Class	Class 2
Output Power	2 dBm

Applicable MIL-STD

Standard: MIL-STD-810F, [MIL-STD-810H]			
MIL Standard	Method / Procedures	MIL Standard	Method / Procedures
Low Pressure	500.4 / I, II [500.6 / I,II]	Humidity	507.4 [507.6 / II]
High Temperature	501.4 / I, II [501.7 / I,II]	Salt Fog	509.4 [509.7 / I]
Low Temperature	502.4 / I, II [502.7 / I,II]	Settling Dust	510.4 / III [510.7 / I]
Temperature Shock	503.4 / I [503.7 / I-B]	Vibration	514.5 / I [514.8 / I]
Solar Radiation	505.4 / I [505.7 / I]	Shock	516.5 / I,IV [516.8 / I,IV]
Rain Blowing/Drip	506.4 / I, III [506.6 / I,III]		-

Accessories & Options

	SSM-BT10 Bluetooth Headset	SSM-20A Speaker Microphone	SEP-10A*1 Earphone for SSM-20A	SEP-11A Earphone	SBR-39LI Li-Ion Battery Pack (7.2 V, 2,200 mAh)	SBR-25LI Li-Ion Battery Pack (7.4 V, 1,950 mAh)	SBR-26LI Li-Ion Battery Pack (7.4 V, 2,500 mAh)	SBH-11 Charger Cradle	SAD-25B/C/U*2 AC Charger	SBH-22 Charger Cradle	SAD-26B/C/U*2 AC Charger for SBH-22
FTA-850L	●	●	●	●	●	●	●	●	●	●	●
FTA-750L	●	●	●	●	●	●	●	●	●	●	●
FTA-550L / FTA-550	●	●	●	●	●	●	●	●	●	●	●
FTA-450L	●	●	●	●	●	●	●	●	●	●	●
FTA-250L	●	●	●	●	●	●	●	●	●	●	●
	SDD-12 Cigarette Lighter DC/DC Converter	SRA-20A Helical Antenna	SHB-11 Belt Clip	SHB-18 Belt Clip	SHB-110 Quick Release Holster	SCH-11 Belt Clip Hanger	SCU-42 Headset Adapter Cable	SBT-12 Alkaline Battery Tray	T9101606 USB Cable (miniUSB / USB-A)	T9101648 USB Cable (microUSB / USB-A)	SCU-37 USB Programming Cable
FTA-850L	●	●	●	●	●	●	●	●	●	●	●
FTA-750L	●	●	●	●	●	●	●	●	●	●	●
FTA-550L / FTA-550	●	●	●	●	●	●	●	●	●	●	●
FTA-450L	●	●	●	●	●	●	●	●	●	●	●
FTA-250L	●	●	●	●	●	●	●	●	●	●	●

*1 Requires SSM-20A *2 Depending on the transceiver version

Specifications are subject to change without notice or obligation.

About this brochure: We have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time in equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized YAESU Dealer for complete details.

YAESU

YAESU MUSEN CO., LTD. <http://www.yaesu.com/jp>

Tennozu Parkside Building
2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002, Japan

YAESU USA <http://www.yaesu.com>

US Headquarters 6125 Phyllis Drive, Cypress, CA 90630, U.S.A.

YAESU UK <http://www.yaesu.co.uk>

Unit 12, Sun Valley Business Park, Winnall Close
Winchester, Hampshire, SO23 0LB, U.K.