

TYT®

TH-7801

VHF and UHF Dual Band Mobile Transceiver

25W output power for 144MHz and 20W for 430 MHz

V+U Full Duplex Operation / Cross-Band Repeater Function / Ultra-size LCD Screen Dual Display
More Than 800 Memory Channels / A+B Dual Operation / Detachable Front Panel
50 CTCSS Tones/1024 DCS codes / 8 groups of voice scrambler option
Dual Band : TX 144-146MHz and 430-440 MHz
AM/FM RX : 118-524MHz, 136-524MHz, 350-524 MHz

DTMF/2 Tone/5 Tone

A + B Dual Band Operation



Detachable Front Panel



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Main Functions

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AM/FM RX: TX:118-524MHz, 136-524MHz and 350-524MHz
- V+U Full Duplex Operation
- Cross-band Repeater Function
- 25W output power for 144MHz and 20W for 430MHz
- Ultra-size LCD Screen Dual Display
- More than 800 Memory Channels
- 50 CTCSS tones/1024 DCS codes
- DTMF/2 Tone/5 Tone
- 8 groups of Voice Scrambler option
- A + B Dual Band Operation
- Detachable Front Panel

Standard Accessories



Hand Microphone



Protective Tube



Microphone Hanger



M5*16 / M4*16
Self-tapping Screw



Fixed Bracket



Power Cable



M4*10 Combination
Screw



Separation Cable Kit

Specification

General

Frequency Range	Dual band: TX:144-146MHz and 430-440MHz AM/FM RX: TX:118-524MHz 136-524MHz and 350-524MHz
Channel Capacity	809 channels
Channel Spacing	2.5/5/6.25/10/12.5/15/20/25/50 KHz
Modes of Emission	F3
Antenna Impedance	50 Ohms, unbalanced (Antenna Duplexer built-in)
Frequency Stability	±5 ppm@-140°F~+140°F(-10°C~+60°C)
Operating Voltage	-4°F~+140°F(-20°C~+60°C)
Operating Temperature Range	13.8VDC (± 15%), negative ground
Current Consumption (Approx)	RX: 0.5A (Squelched) TX: 8.0A (50/430MHz), 8.5A (29/144MHz)
Case size (WxHxD)	140x41.5x168mm (w/o knobs & connectors)
Weight (Approx)	1000g

Transmitter

Output power	25/20/10/5W (14MHz), 20/10/5W(430MHz)
Modulation Type	Variable Reactance
Maximum Deviation	Better than -60dB (29 MHz: Better than -50dB)
Modulation Distortion	Less than 3%
Microphone Impedance	2kΩ

Receiver

Circuit Type	Double-conversion super-heterodyne
Intermediate Frequency	49.95 MHz / 450 KHz (Left band) 38.85 MHz / 450 KHz (Right band)
Sensitivity (for 12dB SINAD)	Better than 0.2μV
Squelch Sensitivity	Better than 0.16μV
Selectivity (-6 dB/-60dB)	12 kHz/30KHz
Maximum AF Output	2W@8Ω for 5% THD
AF Output Impedance	4-16Ω

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