

SPECIFICATIONS

General

Frequency Ranges:	RX 0.5-1.8 MHz (AM Broadcast) 1.8-30 MHz (SW Band) 30-76 MHz (50 MHz HAM) 76-108 MHz (FM Broadcast) 108-137 MHz (Air Band) 137-174 MHz (144 MHz HAM) 174-222 MHz (VHF TV) 222-420 MHz (ACT1) 420-470 MHz (430 MHz HAM) 470-800 MHz (UHF TV; USA Cellular Blocked) 800-999.99 MHz (GEN2; USA Cellular Blocked) TX 144-148 MHz or 144-146 MHz 430-450 MHz or 430-440 MHz
Channel Steps:	5/9/8.33/10/12.5/15/20/25/50/100 kHz
Frequency Stability:	±5 ppm (+14 °F to +140 °F [−10 °C to +60 °C])
Repeater Shift:	±600 kHz (144 MHz) ±1.6/(5.0)/7.6 MHz (430 MHz) (5.0 MHz: USA)
Emission Type:	F2D, F3E, F2A
Antenna Impedance:	50 Ω
Supply Voltage:	Nominal: 3.7 V DC, Negative Ground Operating: 3.7 ~ 7.0 V, Negative Ground (EXT DC Jack) 5.0 ~ 7.0 V, Negative Ground (EXT DC Jack w/Charging)
Current Consumption:	120 mA (Receive) 60 mA (Standby, Saver Off) 30 mA (Standby, Saver On, Save Ratio 1:2) 50 mA (Radio Band Receive) 100 μA (Auto Power Off) 1.3 A (1.5 W Tx , 144 MHz) 3.7 V DC 1.6 A (3 W Tx , 144 MHz) 6 V DC 1.2 A (1 W Tx , 430 MHz) 3.7 V DC 1.8 A (2 W Tx , 430 MHz) 6 V DC
Operating Temperature:	−4 °F to +140 °F (−20 °C to +60 °C)
Case Size (W x H x D):	1.9" x 3.2" x 0.9" (47 x 81 x 23 mm) W/O knob & antenna
Weight (Approx.):	4.6 oz (130 g) With FNB-82LI & antenna

Specifications are subject to change without notice, and are guaranteed within the 144 and 430 MHz amateur bands only. Frequency ranges will vary according to transceiver version; check with your dealer.

Transmitter

RF Power Output:	1.5 W (@ 4.5 V AA x 3 or 3.7 V FNB-82LI 144 MHz) 3 W (@ 6 V or EXT DC 144 MHz) 1 W (@ 4.5 V AA x 3 or 3.7 V FNB-82LI 430 MHz) 2 W (@ 6 V or EXT DC 430 MHz) Low 0.1 W (@ 4.5 V AA x 3 or 3.7 V FNB-82LI) Low 0.3 W (@ 6 V or EXT DC)
Modulation Type:	Variable Reactance F2D , F3E, F2A
Maximum Deviation:	±5 kHz (F2D , F3E)
Spurious Emission:	At least 60 dB below (HIGH) At least 50 dB below (LOW or less than 1 W)
Microphone Impedance:	2 kΩ

Receiver

Circuit Type:	AM, NFM: Double-Conversion Superheterodyne WFM: Triple-Conversion Superheterodyne AM Broadcast/FM Broadcast: Single-Conversion Superheterodyne
Intermediate Frequencies:	1st: 47.25 MHz (AM, NFM) 1st: 45.8 MHz (WFM) 1st: 130 kHz (AM Radio/FM Radio) 2nd: 450 kHz (AM, NFM) 2nd: 10.7 MHz (WFM) 3rd: 1 MHz (WFM)
Sensitivity:	4 μV for 10 dB SN (0.5-1.8 MHz, AM Broadcast) 3 μV for 10 dB SN (1.8-30 MHz, AM) 0.35 μV TYP for 12 dB SINAD (30-54 MHz, NFM) 1 μV TYP for 12 dB SINAD (54-76 MHz, NFM) 1.5 μV TYP for 12 dB SINAD (76-108 MHz, FM Broadcast) 1.5 μV TYP for 10 dB SN (108-137 MHz, AM) 0.2 μV for 12 dB SINAD (137-140 MHz, NFM) 0.16 μV for 12 dB SINAD (140-150 MHz, NFM) 0.2 μV for 12 dB SINAD (150-174 MHz, NFM) 1 μV TYP for 12 dB SINAD (174-225 MHz, NFM) 0.5 μV for 12 dB SINAD (300-350 MHz, NFM) 0.2 μV for 12 dB SINAD (350-400 MHz, NFM) 0.18 μV for 12 dB SINAD (400-470 MHz, NFM) 1.5 μV for 12 dB SINAD (470-540 MHz, WFM) 3 μV TYP for 12 dB SINAD (540-800 MHz, WFM) 1.5 μV TYP for 12 dB SINAD (800-999.99 MHz, NFM) (USA Cellular Blocked)
Selectivity:	NFM, AM: 12 kHz/35 kHz (–6 dB /–60 dB) WFM: 200 kHz / 300 kHz (–6 dB/–20 dB)
AF Output:	50 mW @ 8 Ω for 10 % THD (@ 3.7 V) 100 mW @ 8 Ω for 10 % THD (@ 6 V)