



a professional base, mobile or manpack radio for tactical environment

Nabishi MMR-78 is a Military tactical radio with a built-in 20W amplifier equipment. It can be fitted with a heavy duty metal constructed durable vehicle or truck-mounted antenna when installed in a vehicle or with a whip antenna when used as a manpack. Solidly built and harsh environment proof with crystal clear sound clarity and optimum long range performance.

Main Features

- Full military range from 30 to 88 MHz
- 2 modes of operation, battery or external power
- Operation panel with indicators for low/high power, antenna switching and status.
- Output power: 10W/20W (switchable)
- Can be connected with NHT-78A and switched between digital or analog modes of transmission
- Optional voice 256-bit AES scrambler
- Operating Temperature: -30°C ~+65°C
- Dimension: 234(w) x 354.5(L) x 88(H) mm
- Can be connected to PC or GPS receiver via data connector for transmitting data.
- Weight (including battery): 6kg

Technical Specifications

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Frequency coverage	30.000-88.000MHz (Full range)
Channel spacing	25KHz / 12.5KHz (Option)
Number of channels	2321 74642 (12.5KHz)
Number of preset channels	100+
Power supply requirements	12 ~ 17 VDC
Current drain (approx)	
Standby	Less than 800mA (Power save model) Less than 1400mA (Normal mode)
RX (middle volume)	Less than 1800mA
TX (More than 1 Watt)	Less than 6000mA
Built-in tone signaling	38 CTCSS, 83 DCS or 150Hz tone
Frequency error	±3ppm
PC or GPS Interface	RS232C/E for data transmission.
Antenna port	Built-in antenna matching network.
Antenna protection	Low VSWR, High radiation efficiency
Antenna	Internal and external Switching
Antenna Matching	32 levels (Auto-switching up to 16 levels)
Protection against	Over heat/current of PA

Transmitter	
RF output power	10 - 20 Watt, with APC, Switchable
Modulation system	Variable reactance frequency modulation
Max. permissible deviation	±5KHz / ±2.5KHz (12.5KHz)
Spurious emissions	63 dBc
Harmonic Radiations	Better than 40 dBc (2nd) Better than 55 dBc (4th and above)
Adjacent channel power	65dBc
Audio distortion	5% typical

Receiver	
Receive system	Double-conversion superheterodyne system
Intermediated frequencies	1st 130.05MHz, 2nd 450KHz
Sensitivity	(I2dB SINAD) 0.4uV (typical)
Squelch sensitivity	0.4uV (at threshold)
IF Rejection	Better than 65dB
Image Rejection	Better than 70dB
Adjacent channel selectivity	60dB (typical)
Intermodulation	60dB (typical)
Audio output power	250mW typical at 5% distortion with an 16D load

Mechanical and Environmental	
Dimensions	Dimension: 234(w) x 354.5(L) x 88(H) mm
Weight (including battery.)	6Kg
Usable temperature range	-30°C to +65°C
Environmental	per MIL-STD-810
Pressure,	High Temp, Low Temp, Low
Immersion, Humidity, Salt fog, Vibration & Drop	Immersion, Humidity, Salt fog, Vibration & Drop
Immersible to EMI/EMC	1 meter depth of water for 2 hours Meets MIL-STD-461C

Standard	MIL 810C		MIL 810D		MIL 810E	
	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I	500.3	I
High Temp.	501.1	I	501.2	I, II	501.3	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III
Salt Fog	509.1	I	509.2	I	509.3	I
Vibration	514.2	VIII	514.3	I	514.4	I
Immersion	—	—	—	—	512.3	I
Shock	—	—	516.3	IV	516.4	IV



Options and Accessories



Vehicle Bracket



AC Charger



Battery Pack



Handset / Microphone



Manpack harness



PC - GPS interface cable



Antenna



Base Power supply



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