



Customisable Repeaters for Military band use



The Nabishi MR-30882 are customisable Military Band Repeaters developed for the modern tactical environments, and provide secure and reliable voice and data communication over the entire military band of 29.7-88MHz with 12.5 or 25KHz step.

The repeaters are available in a **Desk-top (MR-30882DT)** or **Rack-mount (MR-30882U)** configurations and can easily be further customised for customers specific requirements, **including High Power versions.**

Some of the MR-30882 powerful features include: the capability to transmit both data and voice, dynamic antenna matching circuit. The MR-30882's are complimented by and fully compatible with our other military radios.

MR-30882 conform to rigid military standards: Mil-Std-810E tests for reliability under harsh environments and Mil-Std-461C tests for EMI/EMC and are fully compatible with old generation radios

Main Features

- Full military range from 29.7 to 88 MHz
- Single channel or Multi-channel option
- CTCSS and DCS tone signaling
- Output power: 25W or Higher Power options
- Transparent Talk-through of encrypted radios
- Operating Temperature: -30°C ~+65°C
- Dimension: 190(w) x 50 (L) x 150(H) mm
- Can be connected to PC or GPS receiver via data connector for transmitting data.
- easily be interfaced with our NDC-750 OTAR (Over-the-air) mapping interface unit.
- Monitor facility with volume control
- Optional Duplexer for single antenna operation
- Weight (including battery): 10kg
- Mil-STD-810E for harsh environment

Technical Specifications

Technical Specifications	
Frequency coverage	29.7.000-88.000MHz (Full range)
Channel spacing	25KHz / 12.5KHz (Option)
Number of channels	2321 74642 (12.5KHz)
Number of preset channels	1 or 100
Power supply requirements	12 ~ 17 VDC or 240 Volts AC
Current drain (approx)	
Standby	Less than 300mA (Power save model)
RX (middle volume)	Less than 6 amp (Normal mode)
TX (More than 1 Watt)	Less than 20 amp
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

Mechanical and Environmental

Dimensions (Desk Top Unit)	Dimension: 31.5(w) x 32.5(L) x 18(H) cm
Dimensions (Rack-Mount Unit)	Dimension: 53.5(w) x 42.5(L) x 13.5(H) cm
Weight	10Kg nominal.
Usable temperature range	-30°C to +65°C
Environmental	per MIL-STD-810 High Temp, Low Temp, Low
Pressure,	Immersion, Humidity, Salt fog, Vibration & Drop
EMI/EMC	Meets MIL-STD-461C

Transmitter	
RF output power	10 - 25 Watt, or up to 250 Watt optional
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	4Watt typical at 5% distortion with an 16D load

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



Typical Repeater Rear Connections

Options and Accessories



Fist Microphone



Duplexer Option



Desk Microphone Option



Handset



PC - GPS interface cable



Antenna



Nabishi UK Ltd
 16c Upton Road, Tilehurst, Reading, Berkshire, RG30 4BJ
 England, United Kingdom
 Tele:+44 (0)118 943 3311 Fax: +44 (0)118 943 3366
 Email: sales@nabishi.com
www.nabishi.com