



WB840

DMR FIXWED BASE STATION

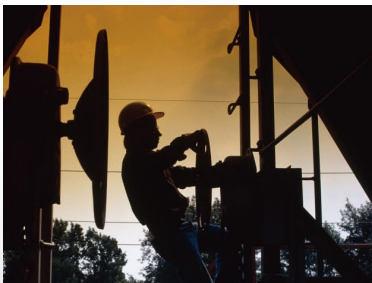
- ★ 1.8" color screen
- ★ Single-frequency repeater
- ★ Multiple advanced analog signaling
- ★ Compliant to MIL 810 C/D/E/F/G and IP54
- ★ Support multi-mode operation as well as digital and analog trunking
- ★ Large keypad and five programmable keys for easy operation
- ★ Built-in 220V AC power module
- ★ Retractable handle design



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KEY FEATURES AND BENEFITS

- **1.8" Graphic Dot-matrix True Color Display**
The large-sized, full color display enables easy viewing of information even under bright sunlight.
- **Multiple Languages**
WB840 supports multiple languages including English, German, French, Turkish, Spanish, Nederland, Italian, Arabic, Polish.
- **Single Frequency Repeater Mode(Optional)**
Support single-frequency repeater mode under digital mode, greatly saving frequency resources and extending communication range in DMO mode.
- **One Touch Operation Usage**
WB840 provides four programming keys, providing one touch operation such as Text Message or Voice Calls.
- **Versatile Voice Calls & Data Services**
The Intelligent WB840 supports various voice call types, including Private Call, Group Call, All Call and Emergency Call, as well as data services, e.g. Text Message and Data Transfer.
- **Secure Communication (Optional)**
Enhanced digital encryption, including ARC4, DES and 256 bits AES encryption algorithm and scrambled analog call feature.
- **IP Interconnection (Optional)**
Built-in RJ45 port for IP interconnection function.
- **GPS(Optional)**
Integrated LIP (Location Information Protocol) enables the real time tracking of the mobile radio.
- **Multiple Analog Signaling Modes**
Multiple analog signalings, including MDCI 200, DTMF, 2-Tone and 5-Tone, provides compatibility with existing analog communication systems.
- **Supplementary Services**
WB840 supports supplementary services such as Radio Check, Remote Monitor, Call Alert, Monitor Channel, Permanent Monitoring, Kill, Stun and Revive, Transmit Interrupt.
- **Rugged Design**
It is strictly compliant with MIL-STD-810 C/D/E/F/G and IP54 standards, ensuring outstanding performance even under harsh environments.
- **Scan**
WB840 supports scanning of analog voice and signaling, digital voice and data, and mixed mode scan including analog and digital signals.
- **Integrated Bluetooth(Optional)**
Built-in Bluetooth for connecting with variety of accessories like PTT button, Earphones and more.
- **DMR Tier3 and MPT Working Mode (Optional)**
It supports DMR Tier3 and MPTI 327 working mode .This option need license.



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GPS

Accuracy specs are for long-term tracking(5 satellites visible at nominal -130dBm)

TTFF(Time To First Fix)-Cold Start	<1 minute
TTFF(Time To First Fix)-Hot Start	10 seconds
Horizontal Accuracy	10 m

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30 °C ~+60 °C
Storage Temperature	-40 °C ~+85 °C
ESD	IEC610000-4-2(Level4) ±4kV(Contact) ±8kV(air)
American Military Standard	MIL-STD-810-C/D/E/F/G
Dust & Water Protection	IP54 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

MILITARY STANDARDS 810

810C		810D		810E		810F		810G		
APPLICABLE MIL-STD	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT
Low Pressure	500.1	I	500.2	I	500.3	II	500.4	II	500.4	II
High Temperature	501.1	I,II	501.2	I/AI,II/AI	501.3	I/AI,II/AI	501.4	I/Hot,II/Hot	501.5	I/Hot AI,II/Hot(AI)
Low Temperature	502.1	I	502.2	I/C3,II/C1	502.3	I/C3,II/C1	502.4	I/C3,II/C1	502.5	I/C3,II/C1
Temperature Shock	503.1	-	503.2	I/AIC3	503.3	I/CIA3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I
Rain	506.1	I,II	506.2	I,II	506.3	I,II	506.4	I,III	506.5	I,III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VII/F,CURVE-W	514.3	I/10,II/3	514.4	I/10,II/3	514.5	I/24	514.6	I/24
Shock	516.2	I,II	516.3	I,IV	516.4	I,IV	516.5	I,IV	516.6	I,IV

Accessories



Palm Microphone



Power Cord



Antenna(optional)

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WB840 SPECIFICATIONS

General

Frequency Range	136~174MHz, 350~400MHz 400~470MHz
Channel Capacity	1024
Zone Capacity	248
Channel Spacing	20kHz/25kHz/12.5kHz
Operating Voltage	Ac 220V
Current Drain Standby	<0.1A
Current Drain Receive	<0.2A
Current Drain Transmit	<0.5A(25W), <0.7A(40W/45W)
Frequency Stability	0.5ppm
Antenna Impedance	50Ω
Dimensions(H·W·D)	300mm×230mm×185mm
Weight	5.9Kg
LCD Display	1.8inch, 5 rows

Receiver

Sensitivity Analog	0.22μV(12dB SINAD)
Sensitivity Digital	0.22μV/BER5%
Selectivity	60dB@12.5kHz, 70dB@20/25kHz(TIA-603); 60dB@12.5kHz, 70dB@20/25kHz(ETSI)
Spurious Response Rejection	70dB@12.5/20/25kHz(TIA-603), 70dB@12.5/20/25kHz(ETSI)
Inter-modulation	70dB@12.5kHz/25kHz(TIA-603), 65dB@12.5kHz/25kHz(ETSI)
Hum and Noise	40dB@12.5kHz, 45dB@20/25kHz
Rated Audio Power Output	3W
Rated Audio Distortion	3% (Typical)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@ < 1GHz, -47dBm @>1GHz

Transmitter

RF Power Output	Low Power:25W, High Power: 40W(UHF)/45W(VHF)
FM Modulation	11K0F3E@12.5kHz, 14K0F3E@20kHz, 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz Voice: 7K60F1E&7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
FM Hum & Noise	40dB@12.5kHz, 45dB@20kHz/25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@20kHz/25kHz
Audio Response	+1~-3dB
Audio Distortion	≤ 3%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS 102 361-1,-2,-3,-4

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.