



**KTeck**



# KM840B

## DMR FIXED BASE STATION

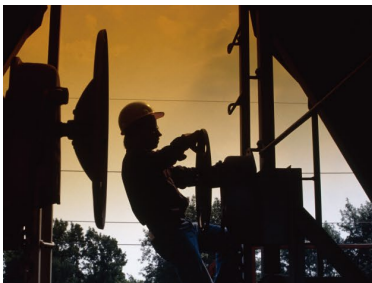
- ★ 1.8" color screen
- ★ Single-frequency repeater
- ★ Multiple advanced analog signaling
- ★ Compliant to MIL 810 C/D/E/F/G and IP54
- ★ Support multi-mode operation as well as digital and analog trunking
- ★ Large keypad and five programmable keys for easy operation
- ★ Built-in 220V AC power module
- ★ 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**  
KM840B 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**  
KM840B provides four programming keys, providing one touch operation such as Text Message or Voice Calls.
- **Versatile Voice Calls & Data Services**  
The Intelligent KM840B 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.
- **Voice Privacy**  
Enhanced digital encryption, including ARC4, DES and 256 bits AES encryption algorithm and scrambled analog call feature facilitate the management of the calls between team members and ensure the privacy of communications in any chosen mode.
- **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**  
KM840B 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**  
KM840B 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/A I,II/A I	501.3	I/A I,II/A I	501.4	I/Hot,II/Hot	501.5	I/Hot A I,II/Hot(A I)
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/A I C3	503.3	I/C I A3	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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## KM840B 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.



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