

Recommended Applications

- Construction sites
- Manufacturing
- Ports
- Hotel
- Property management
- Warehousing

Accessories

Standard Accessories	Palm microphone SM07R2 Microphone hanger	Mounting bracket BRK03	Vehicle power cable PWC05/PWC06 Fuse POA08/POA15
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Optional Accessories

 Keypad microphone SM07R1	 Palm microphone SM11R1	 External speaker SM09S2	 Desktop Microphone SM10R2
 GPS module GPS03	 Mobile antenna	 Remote mount kit(3m/6m/15m) RCC01/RCC02/RCC03	

Other Accessories

- Programming cable kit(COM port) PC21
- Data transmission cable PC24
- Cloning cable CP06

Applicable MIL-STD-810C/D/E/F

Applicable MIL-STD	810C		810D		810E		810F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	1,2	500.3	1,2	500.4	1
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2	501.4	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2	502.4	1,2
Temp. Shock	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Rain	506.1	2	506.2	2	506.3	2	506.4	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3	507.4	1
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	1
Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	8,10	514.3	1	514.4	1	514.5	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4	516.5	1,4

General

Frequency Range (MHz)	136-174 400-470	
Channel Capacity	512	
Zone Capacity (max)	256	
Channel Spacing (KHz)	25/12.5	
Operating Voltage	13.6V DC ±15%	
Current Drain	Standby	<0.6A
	Receive	<2.0A
	Transmit	<5A(5W)<8A(25W) / <12A(50W)(VHF) <5A(5W)<8A(25W) / <12A(45W)(UHF)
Frequency Stability (ppm)	±2	
Operating Temperature (°C)	-30 ~+60	
Antenna Impedance (Ω)	50	
Dimensions (H×W×D) (mm)	164 × 180 × 48	
Weight (kg)	1.7	

Transmitter

RF Power Output	5W/25W/50W(VHF); 5W/25W/45W(UHF)
Modulation	16K Φ F3E/11K Φ F3E
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
FM Noise (wide/narrow)	≥45/40dB
Audio Distortion	≤3%

All Specifications are tested according to TIA/EIA-603, and subject to change without notice due to continuous development.

Receiver

Sensitivity (wide/narrow)	≤0.28/0.35 μ V
Selectivity (wide/narrow)	≥75/65dB
Intermodulation (wide/narrow)	≥75/70dB
Spurious Response Rejection	≥75dB
S/N (wide/narrow)	≥45/40dB
Internal Audio Power Output (Rated)	3W (less than 3% distortion)
External Audio Power Output (Rated)	10W (less than 3% distortion)



Hytera Communications Corporation Limited

Address:HYT Tower, Hi-Tech Industrial Park North,Beihuan Rd.,
Nanshan District,Shenzhen,China
Tel:+86-755-2697 2999 Fax:+86-755-8613 7139 Post:518057
Http://www.hytera.com Stock Code:002583

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Your Local Dealer

Apex Radio Systems Ltd.
102 Tantobie Road
Denton Burn
Newcastle upon Tyne
NE15 7DQ

Tel 0191 228 0466
Fax 0191 228 0467
Email info@apexradio.com



TM-800

Professional Mobile Radio



- Wide-band Coverage
- Powerful Audio
- Remote Mount Control Head
- Versatile Signallings



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Hytera Communications Corporation Limited

Professional Mobile Radio

Super Functions

Wide-band Coverage

Wide-band coverage includes: VHF: 136-174MHz, UHF: 400-470MHz, 450-512 MHz, 480-526MHz, 440-490MHz, 350-400MHz, 450-520MHz, users have the flexibility to select their frequency for use in their respective work environment.

Powerful Audio

HYT's voice compander audio enhancement and a powerful 5W internal or 13W external speaker ensure superb clear, crisp sound, even in noisy environments.

Remote Mount Control Head

The remote mount control head can be mounted on the dashboard without the radio chassis, ideal when space is constraint.

Versatile Signallings

The TM-800 mobile is packed with a full range of signalling capabilities, including CTCSS, CDCSS, DTMF Encode&Decode, 2-Tone, HYT exclusive HDC2400™ and HDC1200 signalling. The HDC2400™ signalling is exclusive

to HYT, and contributes to the system to achieve features including Automatic Number Identification, Individual Call, Group Call, Broadcast, Radio Check, Safety Check, Remote Monitor, Auto Contact, DOS (Data Operated Squelch), Stun&Revive, Short Message and Data Transmission. The HDC1200 Signalling is compatible with MDC1200, and allows functions including PTT ID, Emergency, Remote Monitor, DOS (Data Operated Squelch), Radio Check, Stun&Revive, Individual Call, Group Call and Broadcast.

Built-in Scrambler

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing back and forth. The TM-800's scrambler feature provides enhanced security for your important public safety and private security communications.

Auxiliary Port & Software Upgradeable

Three auxiliary ports are reserved for second development: GPS; Data Transmission; and repeater, etc. Software Upgradeable allows new functions add-in to accommodate future updates, without opening the unit.

Unique Features

512 Channels and Dynamic Regrouping

High 512-channel operating capacity on the TM-800 enables the mobiles to accommodate a vast number of users and work groups concurrently. Each zone or channel can be assigned with a customized name for easy identification. Dynamic regrouping provides greater flexibility in organising different work groups.

Automatic Number Identification (ANI)

When the mobile radio receives HDC1200 or HDC2400™ signalling, ID or alias of the transmitter can be displayed. Your radio supports a selective call list containing up to 200 items of ID and Alias.

Short Message

User can edit messages via keypad microphone, or send pre-defined messages. Messages can be sent between radios or via the control center.

Public Address (PA)

The PA feature feeds MIC audio through a powerful external PA amplifier, and outputs through external speaker, offering robust audio clarity in harsh, noisy environments

Dot Matrix Alphanumeric LCD

The large alphanumeric display with user-friendly icons helps make information easy to understand at a glance. The display is switchable among channel number/alias, zone number/alias, Frequency, short message, DTMF dial number, and menu options. The display illuminations also provide the visibility to operate your radio in the darkness.

Multi-language Capabilities

The display can be dealer customized for indication in languages other than English.

8 Programmable backlight keys

Provides immediate and easy access with your favorite features.

Stun/Revive

Provides enhanced security to prevent unauthorized use of lost or rental units, by remote inhibition of either transmit or transmit/receive. A stunned radio can be remotely revived upon the revive code is received.

Horn Alert

Upon receiving DTMF, 2-Tone, HDC2400™, or HDC1200 signalling, the TM-800 mobile radio can remote control other electronic equipments on vehicle.

Versatile Scan

Three scan modes are available: single zone scan, multiple zone scan and list zone scan. Achievable functions include add/delete scan channel, temporarily close priority channel, temporarily delete nuisance channel, and user selectable priority channel.

Front Panel Programming

The feature enables easy access to customize radio parameter settings to fit user needs.

Over-heating Protection

In case of long time transmission at high power, the TM-800 series will automatically switch to low output power to avoid radio over-heating.

UST (User Selectable Tone)

User can select CTCSS/CDCSS codes via the programmed function key. Each stored UST code can be assigned with a customized name for convenient operation.

DTMF Function

Functions include DTMF ANI, DTMF flexible dialing: manual dial, redial, short number dial, and auto-dial; maximum 32 groups of DTMF encode can be stored and each can be assigned with a customized name. DTMF calling provides individual & group call and over-the-air transmit inhibit/stun/revive/kill functions. When DTMF call is received, there's an audible-visual alert. DTMF PTT ID or alias could be displayed on the LCD to identify the transmitter.

Built-in Modem

The built-in 1200/2400bps MSK modulator offers data transmission function.

Emergency Siren

In case of emergencies or accidents, this feature lets you transmit discreetly signals to the control center or a pre-defined person for emergency help.

Other Features

- PC Programming
- Dual Home Channels
- Wired Clone/MSK Wireless Clone
- Radio Password & Data Password
- Ignition Sense, Timed Power Off
- Auto Transpond
- TOT (Time-out Timer)

TM-800

Perfect for growing organizations, the flexible TM-800 Professional mobile radio can readily expand to meet fast changing business needs. HYT's voice compander audio enhancement and a powerful 5W internal or 13W external speaker ensure superb clear, crisp sound, even in noisy environments. The versatility of the TM-800 mobile helps you keep productivity and efficiency at its highest, no matter how fast your business grows.

