

HYT

Two-way Radio

TM-628H

*High - output
Professional Mobile Radio*



- High-output Power
- DTMF Encoder-decoder
- Robust Audio
- Over-heating Protection

Super Features

High-output power

TM-628H offer you higher out-put power 50W (VHF) 145W(UHF) than other T6 series of HYT, ensuring your long-distance communication requirement.

DTMF encoder-decoder

The DTMF function include DTMF ANI,flexible dialing. Customized, user friendly number storage can be used for your most often called numbers.TM-628H can also realize the function of DTMF decoder (Optional).

Robust audio

TM-628H has unique voice cavity design on configuration. besides, voice compander audio enhancement and a powerful 13W external speaker will provide superb clear ,crisp sound ,even in noisy environments.

Over-heating protection

In case of long time transmission at high power,the TM-628H will automatically switch to low output power to avoid radio over-heating.

Built-in Scrambler

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing back and forth. The scrambler feature provides enhanced security for your important and private communications.

HDC2400™ and HDC1200 signalling

The HDC2400™ signalling is exclusive to HYT, and contributes to the system to achieve features including ANI (Automatic Number Identification), Individual Call, Group Call, Broadcast, stun, Short Message and Data Transmission.

The HDC1200 Signalling is compatible with MDC1200, and allows functions including PTT ID Encode, Emergency Encode, Radio Check Decode, stun & Revive, Individual Call, Group Call and Broadcast.

TM-628H



The high-performance, yet simple-to-use TM-628H mobiles are created to give you the immediate, reliable communication you need to keep mobile teams working efficiently. HYT's voice compander audio enhancement and a powerful 5W internal or 13W external speaker ensure superb clear, crisp sound, even in noisy environments. It's compact design makes these radios ideal when mounting space is a constraint.

Special Features

Automatic Number Identification (ANI)

After HDC2400™ or HDC1200 signalling is received, the radio will display the ID or alias of the other party. The radio firmware supports a selective call list containing up to 128 items.

Built-in modem

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

Emergency alarm

The emergency button allows for a transmission of a signal indicating an emergency situation.

Stun and revive

The stun function permits an authorized radio to remote disable another lost radio. This function can ensure you higher security and is perfect for the radio rental business. A stuned radio will return to operational use when the revive code is received.

Public Address (PA)

The public address feature feeds microphone audio through a powerful PA amplifier to the external speaker, offering robust, out of vehicle, audio clarity.

Large 15-Segment LCD Display

Users may toggle the display to channels or zones, auto dial numbers or other functional settings. The keypad and display illuminates to provide visibility for night time operation.

128 Channels and Dynamic Regrouping

The 128 channel and zoning capability of the TM-610 offers flexibility in organizing work groups. Each channel and zone can be assigned a user friendly name for easy identification. Dynamic regrouping offers flexibility in a changing work group environment.

Lone Worker

The lone worker feature provides added security and safety for individuals who work remotely from their team. Since this function is enabled, the radio will emit an alert tone after the preset time elapses, then the user must press any key, otherwise the emergency procedure will be activated.

Ignition Sense, Timed Power Off

When this function is enabled, you have to connect the ignition wire to the rear panel of the radio so that you can turn on/off the radio by igniting/stalling the car. The radio can only be turned on by igniting the car and will be turned off automatically within the preset time after the car stalls.

6 / 4 Programmable Backlit Keys

Provides immediate and easy access to your most often used features.

Versatile Scan

The TM-628H scan allows for single or multiple zone scanning. Scanning features include add / delete scan channels, nuisance channel delete and user selectable priority channel.

Wired Cloning / MSK Wireless Cloning

Allows users to quickly and easily duplicate one radio's parameters into another radio.

UST (User Selectable Tone)

The user can select CTCSS/CDCSS codes via the programmed function key.

Recommended Applications

- Taxi
- Transportation
- manufacturing

Accessories

Standard Accessories

Palm microphone SM11R1
Microphone hanger

Mounting bracket BRK04
Vehicle power cable PWC06

Fuse POA15

Optional Accessories



Palm microphone
SM07R2



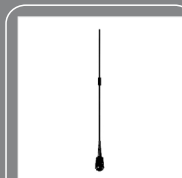
Keypad microphone
SM07R1



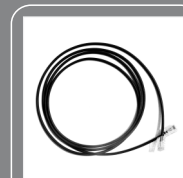
External speaker
SM09S2



Desktop Microphone
SM10R2



Mobile antenna



Cloning cable CP06



Programming cable PC21



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

Applicable MIL-STD	810C Methods Procedures	810D Methods Procedures	810E Methods Procedures	810F 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 1,2
Rain	506.1 2	506.2 2	506.3 1,2	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)	VHF: 136-174 UHF: 400-470	
Channel Capacity	128	
Zone Capacity	16	
Channel Spacing (KHz)	12.5/20/25	
Operating Voltage	13.6V DC \pm 15%	
Current Drain	Standby	0.5A
	Receive	<2.0A
	Transmit	<5A(5W)/<13A (50W)
Frequency Stability (ppm)	\pm 2.5	
Operating Temperature (°C)	-30~+60	
Antenna Impedance (Ω)	50	
Dimensions (L \times W \times H) (mm)	153 \times 47 \times 135	
Weight (kg)	1	

Transmitter

RF Power Output (w)	45/50
Modulation	16K Φ F3E/11K Φ F3E
Spurious and Harmonics	< -13dBm
FM Noise	>45dB(25/20KHz) >40dB(12.5KHz)
Audio Distortion	\leq 3%

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

Receiver

Sensitivity (μ V)	0.28
Selectivity (dB)	75/65
Intermodulation (dB)	70
Spurious Response Rejection (dB)	70
S/N(wide/narrow)	>45dB (25/20KHz) >40dB (12.5KHz)
Internal Audio Power Output(Rated)	5W (less than 5% distortion) 3W (less than 3% distortion)
External Audio Power Output(Rated)	13W (less than 5% distortion) 12W (less than 3% distortion)



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