

ТЕХНИЧЕСКО ПРЕДЛОЖЕНИЕ

На обществена поръчка с предмет: „Доставка на мобилни радиостанции за обезпечаване на дейността в „ЧЕЗ РАЗПРЕДЕЛЕНИЕ БЪЛГАРИЯ“ АД“, реф. № PPD 16-032

Технически характеристики и параметри на мобилни радиостанции - модел TM 610 UHF, марка HYTERA, производител HYTERA COMMUNICATIONS CORPORATION LIMITED, страна на произход КИТАЙ:

Общи изисквания:

- Честотен обхват – 400+470MHz;
- Режими на работа – симплекс и двучестотен симплекс;
- Брой на каналите – 128 с възможност за групиране в 16 групи
- Канално отстояние – 12,5kHz,20, 25kHz (програмируемо);
- Идентификация на повикването –2-тонално /версия с вграден модем/ или 5-тонално;
- Вграден скрамблер – инверсионен тип
- Дисплей – 15 символа LCD
- Светодиоден индикатор, указващ статуса на радиостанцията;
- Възможност за аварийно повикване;
- Възможност за сканиране на предварително определени работни канали;
- Възможност за превключване нивото на изходната В.Ч.мощност;
- Регулируем шумоподавител;
- Възможност за включване на радиостанцията при включване захранването на автомобила;
- Програмиране параметрите на радиостанцията от PC;
- Входно - изходен импеданс – 50Ω ;
- Захранване – номинално напрежение 13.6VDC +- 15%, заземен минус;

Консумация:

- Режим „дежурен прием“– 0.2 - 0,5 A
- Режим „предаване“ – 25 Watts RF Powe - 4.9-5.2 A в зависимост от честотата
- Режим „предаване“ – 5 Watts RF Power - 1.9-2.2 A в зависимост от честотата
- Работна температура – от -30°C до +60°C
- Предавател
- Изходна мощност– от 5 до 25Watt (програмируема); ;
- Стабилност на честотата
- < 0,5kHz Nominal condition
- < 2ppm Extreme condition;
- Максимална девиация–
- ± 5kHz за 25kHz канално отстояние;
- ± 2,5kHz за 12,5kHz канално отстояние;
- Чувствителност на модулационния вход – 50 mV RMS @ 60% peak deviation;
- Време за превключване от режим „приемане“ в режим „предаване“ – до15mS;

Приемник:

- Чувствителност: – 119dBm, 12dB SINAD;
- Нискочестотни изкривявания – < 3 % @ 1kHz модулираща честота;
- Време за превключване от режим предаване в режим приемане – до 15mS;

Доставката включва и програмен продукт за модела относно промяна на честоти и Rx/Tx кодове.


ВЪЗЛОЖИТЕЛ:

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/Томаш Пецка/

.....

/Стефан Апостолов/



ИЗПЪЛНИТЕЛ:

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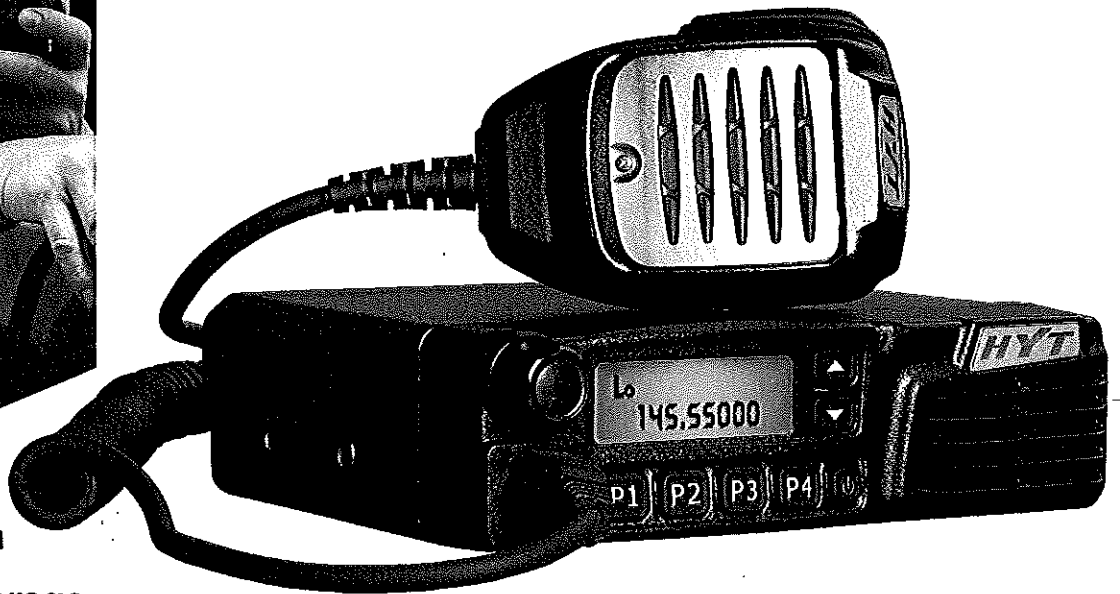
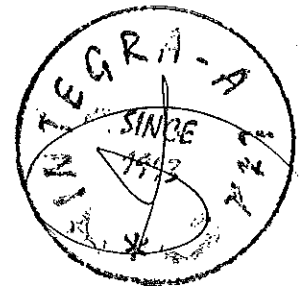
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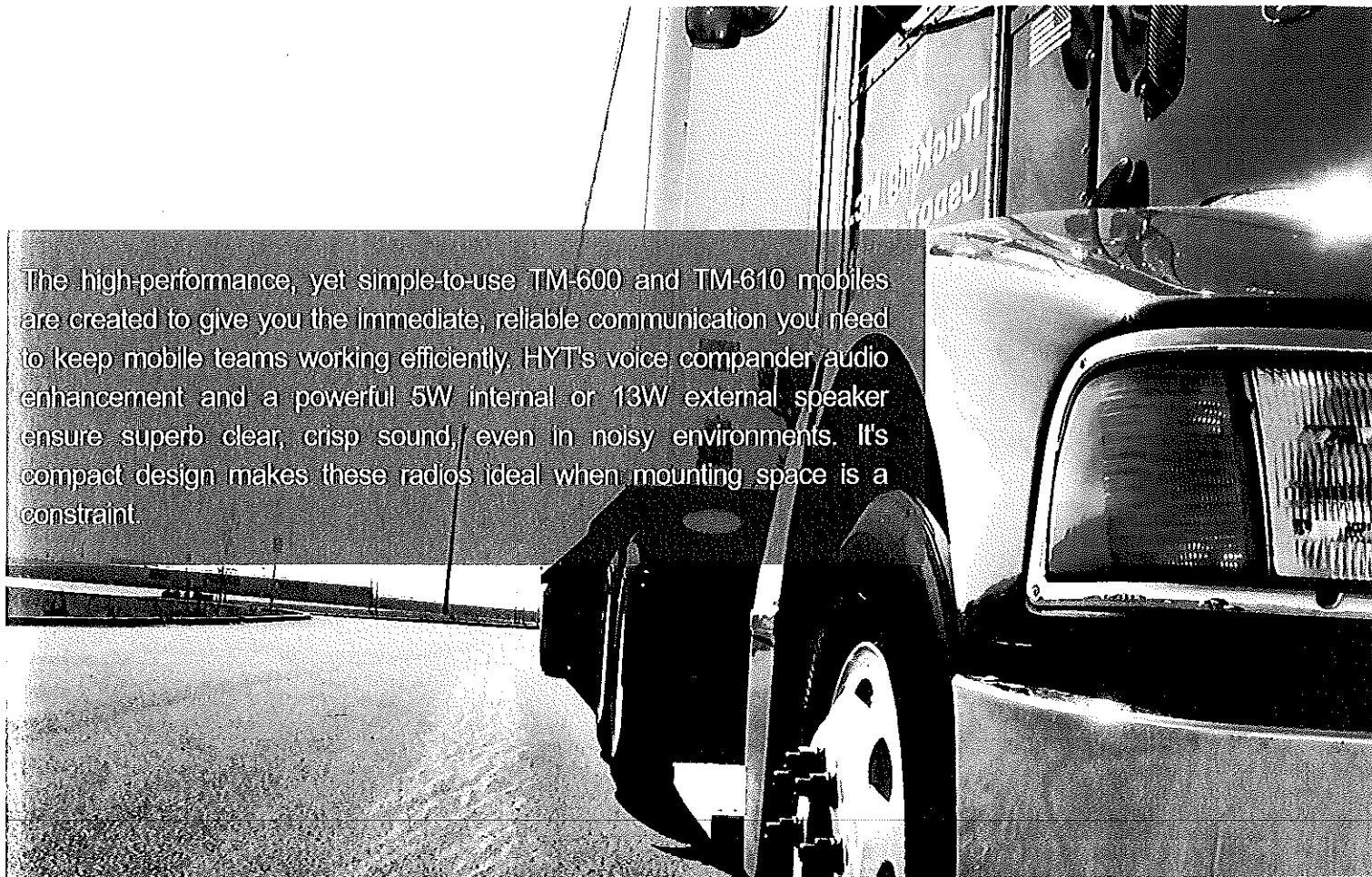


TM-600/610

**Cost Effective
Professional Mobile Radio**



- Compact Design
- Wide-Band Coverage
- Powerful Audio
- Built-in Scrambler



The high-performance, yet simple-to-use TM-600 and TM-610 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.

TM-600/610

Professional Mobile Radios

Super Features

Compact Design

These compact mobile radios are ideal for mounting when space is constraint.

Wide-Band Coverage

These radios provide wide band capability for users requiring a large range of frequencies. VHF is 136-174 MHz, and UHF is 400-470 MHz, 450-500 MHz, 470-520 MHz, and 350-400MHz.

Powerful audio

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

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, Kill, Short Message and Data Transmission.

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

Short message

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

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 (128 for TM-610, 8 for TM-600) 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.

Kill and revive

The kill 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 killed radio will return to operational use when the revive code is received.

DTMF function

The DTMF calling function offers flexible dialing procedures of alias dialing, auto dial and redial as well as manual dialing. Customized, user-friendly number storage can be used for your most often called numbers.

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 (TM-610)

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.

8-Segment Numeric LED (TM-600)

The numeric 8 segment display indicates the channel of operation. LEDs also indicate channel scan and transmit power operation.

128 Channels and Dynamic Regrouping (TM-610)

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 (TM-610)

The TM-610 scan allows for single or multiple zone scanning. Scanning features include add / delete scan channels, nuisance channel delete and user selectable priority channel.

Channel Scan (TM-600)

The TM-600's scan feature offers priority channel scan, selectable priority channel, nuisance channel temporary delete, etc.

Wired Cloning / MSK Wireless Cloning

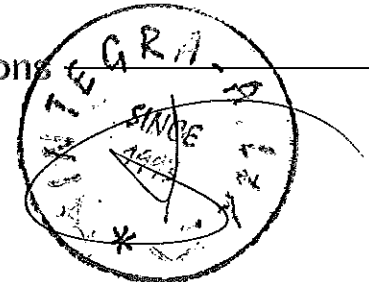
Allows users to quickly and easily duplicate one radio's parameters into another radio.

UST (User Selectable Tone)

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

Recommended Applications

- Taxi
- Transportation



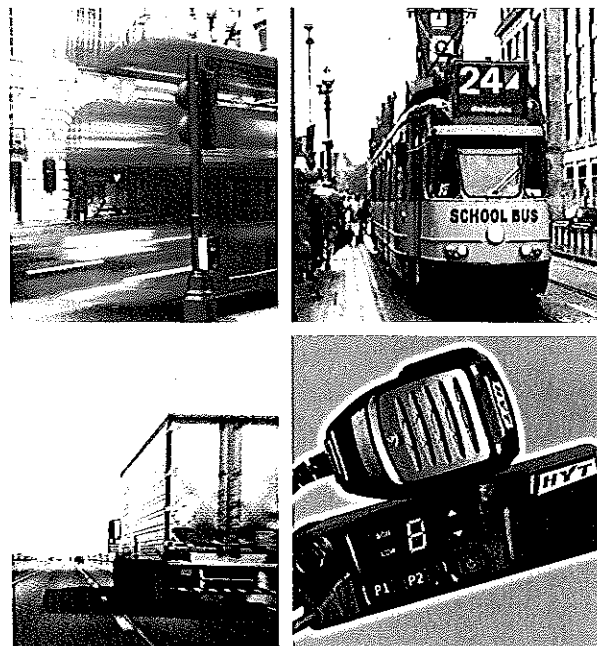
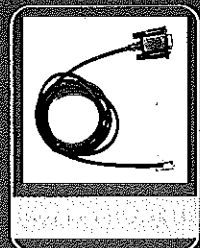
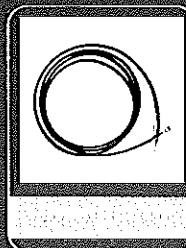
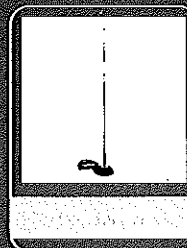
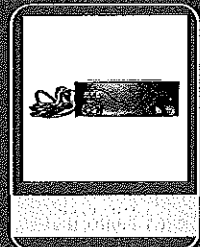
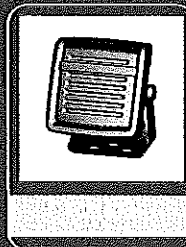
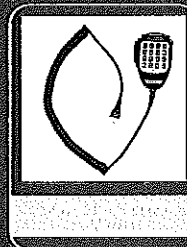
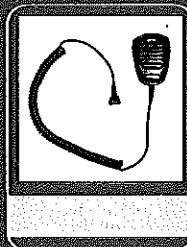
Accessories

Standard Accessories

Palm microphone SM11R1
Microphone hanger

Mounting bracket BRK04 Fuse POA15
Exclusive vehicle power cable PWC06

Optional Accessories



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-135-174 GHz-400-470 450-500 470-520 330-400	
Channel Capacity	8 (TM-600) 128 (TM-610)	
Zone Capacity	16 (TM-610)	
Channel Spacing (kHz)	12.5/20/25	
Operating Voltage	13.6V DC ±15%	
Current Drain	Standby	0.5A
	Receive	<2.0A
	Transmit	<5A(5W)/<8A (25W)
Frequency Stability (ppm)	±2.5	
Operating Temperature (°C)	-30~+60	
Antenna Impedance (Ω)	50	
Dimensions (L×W×H) (mm)	152×43×125	
Weight (kg)		

Transmitter

RF Power Output (W)	62W
Modulation	16KΦ F3E/11KΦ F3E
Spurious and Harmonics	<30dB (10KHz) <30dB (10KHz)
FM Noise	>45dB(25/20KHz) >40dB(12.5KHz)
Audio Distortion	<3%

Receiver

Sensitivity (μV)	0.28/0.45/0.35
Selectivity (dB)	75/70/65
Intermodulation (dB)	70/65/60
Spurious Response Rejection (dB)	70
S/N (w/30dB BW)	>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)	15W (less than 5% distortion) 12W (less than 3% distortion)

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



ISO9001:2000 Certificate NO:FM 61540



<http://www.hyt.cn>

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ЦЕНОВО ПРЕДЛОЖЕНИЕ

На обществена поръчка с предмет: „Доставка на мобилни радиостанции за обезпечаване на дейността в „ЧЕЗ РАЗПРЕДЕЛЕНИЕ БЪЛГАРИЯ“ АД“,
реф. № PPD 16-032

№	Наименование	Цена за 1 брой, в лв. без ДДС
1.	Мобилна УКВ Радиостанция, модел TM-610 UHF; марка HYTERA, производител Hytera Communications Corporation Ltd, страна на произход Китай	280.00 (двеста и осемдесет)


ВЪЗЛОЖИТЕЛ:


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/Томаш Пецка/


.....
/Стефан Апостолов/



ИЗПЪЛНИТЕЛ:


.....
/Аглика Йонова/

