

DTM-6000

Data Modem for DMR Trunking SCADA Solution

Voice & Data in one system

On the basis of providing reliable and efficient data communication, Hytera DMR Trunking SCADA Solution provides excellent voice dispatching capability from DMR standard, providing individual call, group call, broadcast call, PSTN call and other trunking voice call related features to meet different aspects of requirements and scenarios.

Large coverage

Hytera DMR Trunking base station offers large and reliable coverage with high terminal output power, the maximum output power of the data modem is 25W. In this way, with less base stations, a certain area can be covered, the number of required base station will be fewer and the construction investment will be saved.

High efficiency data transmission ability

Any traffic channel can be configured as dedicated SCADA data transmission channel according to end user's need. Hytera provides end to end encryption for data transmission.

Easy modem configuration and maintenance

The network management system provides configuration management, performance management, fault management and firmware version management of the data modem. The firmware of the modem can be upgraded remotely by modem configuration software via WiFi.



Technical Data DTM-6000

General data	
Frequency range	VHF: 136 – 174 MHz UHF: 400 – 470 MHz
Power	Input voltage: 10-30VDC
Dimensions (L x W x H)	199.5 x 186 x 58 mm
Weight	≤ 2.5 kg
Installation	Wall-mounted Rail-mounted Flat-mounted
Frequency stability	± 0.5 ppm (-30 °C to 60 °C)
Packet Data	½ Rate, ¾ Rate
Air interface standard	DMR: ETSI TS 102 361
Certification	CE, FCC

Environmental conditions	
Operating temperature range	-30 °C to +60 °C
Storage temperature range	-40 °C to +70 °C
ESD	IEC 61000-4-2 (level 4) ± 8 kV (contact) ± 15 kV (air)
Operating humidity	Humidity: <95 %, no condensation
Shock and vibration	1.5 m anti-dropping with packaging, off working state
MTBF	≥ 30.000 hours

Transmitter	
Transmitting power	1 – 25 W (adjustable)
Adjacent channel selectivity	60 dB at 12.5 kHz
Noise cancellation	40 dB at 12.5 kHz
Interfering signals and harmonics	- 36 dBm (< 1 GHz) - 30 dBm (> 1 GHz)

Receiver	
Intermodulation rejection (ETSI)	70 dB
Spurious response rejection (DMR) (ETS 300-113)	70 dB
Ethernet	0.3 µV / BER 5 %
Noise cancellation	40 dB at 12.5 kHz
Conducted spurious emission	< - 57 dBm

Interfaces	
Serial COM1 / COM2	RS232, RS485 DB9
2x Ethernet	10/100 M Base T, RJ45
Antenna	TNC Female
Antenna (WiFi)	SMA

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.



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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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