



# Hytera DMR Trunking

Powerful DMR trunked radio system for discriminating users

Hytera DMR Trunking is a modular radio communication solution that can be tailored to your exact requirements. The flexible networking capabilities and high level of scalability makes optimal radio communication possible for small and large areas. This means Hytera DMR Trunking is especially suitable for energy suppliers, road maintenance depots and industrial companies.



# Hytera DMR Trunking highlights

## Top-notch DMR tier III technology for optimizing your processes

### Powerful communication

Hytera DMR Trunking combines all the benefits of digital radio technology into one: Excellent voice quality, high capacity thanks to trunked radio technology, safety functions and data services. Hytera DMR Trunking offers twice the communication capacity of analog radio, thereby optimally utilizing existing resources.

### Reliable and secure operation

Thanks to the redundant dimensioning of the primary hardware and software components, communication is safeguarded even if an individual component fails. Various encryption functions and authentication ensure maximum security for transmitted speech and data.

### Convenient and cost-efficient

Since it is based on IP system architecture, the DMR trunked radio system can be cost-effectively maintained and upgraded using commercially available network technology. The network management system (NMS) provides central management of the radio system and supports remote maintenance. Users can conveniently manage subscribers via the operator-friendly user interface, or expand the radio network simply by using the drag and drop function.

### Flexible solutions for efficient working

The modular design and the IP-based system architecture enables communication to be tailored to the customer and makes low demands on the system connections. The large scope of Hytera DMR Trunking services and functions enable efficient working and optimization of operating processes.

## The right functions for the perfect application

### Of speech and data, safety functions and mobility management

- Individual call, group call, include call, broadcast call and emergency call, PSTN/ PABX call, semi-duplex call and full-duplex calls
- Call priorities and emergency call support
- Text and status messages, GPS data
- Call group tracking to bring subscribers from another call into a group call with a higher priority
- Dynamic group number assignment (DGNA)
- End-to-end encryption of speech and data, encryption with up to 256 bits with AES, including dynamic key allocation
- Enable and disable radios
- Authentication
- Multi-level redundancy design
- Group login/group logout
- Cell re-selection within a conversation (handover)
- Programming of radios via the air interface (OTAP)
- Radios give out RSSI reports
- Store and forward center for data calls



## DMR trunking interface

### **MSO – the Hytera DMR trunking system controller node**

The Mobile Switching Office (MSO) provides the routing functions, the gateways to telephone networks and other systems as well as interfaces for applications for Hytera DMR Trunking.

- System controller nodes from different regions can be connected in order to enable communication between regions and across the country.
- The MSO can be designed with redundancy.
- Powerful application interface for connecting with third-party provider developments

## Secure radio coverage

### **Hytera DMR trunking base station at a glance**

At the heart of the base station for the Hytera DMR Trunking trunked radio system lies the multi-talented RD985S repeater. Thanks to the modular design, the base station can be ideally adapted to local requirements.

- Components can be simply reused and new acquisitions selected flexibly.
- Communication in compliance with the DMR trunked radio standard
- When in fallback operation, the infrastructure and radios automatically switch to tier II mode in order to safeguard communication at all times.

## Efficient network administration

### **Network management system (NMS)**

The network management system (NMS) is responsible for administrating Hytera DMR Trunking efficiently. It provides extensive functions for the monitoring, operation and maintenance of the entire DMR system: Subscriber administration, configuration management, fault management, security management as well as topology management and performance statistics.

- Central administration of network elements and software updates are managed via remote access.
- Support of SNMP to enable integration into the customer's network management solutions.
- Forwards alarm messages to various channels (e.g. e-mail, text message, radio).
- Cost-efficient license model

## Our Hytera DMR Trunking product range

Hytera offers you a complete product range for your DMR Trunking radio system: From infrastructure to mobile radios to applications and customer-oriented service – you can compile your own individual solution.



**DMR radios with DMR tier III support (selection)**



**SmartDispatch / LDS**



**Network management system (NMS)**



**Base station with RD985S repeater in rack or for installation**



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