Hytera Base Stations for DMR Trunking

Powerful. For every scenario.

The flexible base station

DS-6211 DMR Trunking Base Station

The centerpiece of the DS-6211 base station for the Hytera DMR Trunking system is the multi-talented RD985S repeater.

With its modular concept, the base station can be optimally adapted to local requirements.

Outdoor base station: the Cube

DS-6250 DMR Trunking Cube

Hytera’s DS-6250 outdoor base station with carrier capacity control. This base station can also be operated in single-site mode.

Several available installation options cover each communication scenario: wall mounting for indoor use, pole mounting for outdoor use, installation in the vehicle for emergency use and mounting in the housing for temporary use.
Hytera DMR Trunking
Powerful DMR trunked radio system for sophisticated communication

Hytera offers energy suppliers, security forces and industrial companies the ideal DMR radio infrastructure: Hytera DMR Trunking is a modular communication solution that enables optimal radio communication for both small and large areas with its flexible networking capabilities and high scalability.

www.hytera-mobilfunk.com
Flexible & sophisticated communication
The DMR Trunking System from Hytera

Stop worrying about how to respond to changing network size and communication needs. The Hytera DMR Trunking System offers a tailor-made digital trunked solution with maximum functionality and extensibility – based on the best DMR Tier III technology for sophisticated voice transmission and dispatcher communication.

In addition to a fully IP-based system architecture and centralised networking, Hytera’s DMR trunking system relies on a modular design of all system components. This enables maximum flexibility in networking and enormous scalability for consistently reliable wireless communication.

Powerful communication
Hytera’s DMR Trunking system combines all the advantages of digital radio technology:

- Excellent voice quality
- High capacity thanks to the bundled radio technology
- Multi-carrier technology
- Security functions and data services

The modular concept and the IP-based system architecture allow customised communication and also make low demands on the system connections.

Optimum use of the frequency spectrum
DMR Trunking offers double the communication capacity of analogue radio. This DMR system also supports single-frequency radio to support network-wide communication even with a single frequency pair.

The TDMA method ensures the available bandwidth is fully utilised, saving resources, with twice the channel capacity compared to analogue radio. This is a key factor in mitigating the increasing shortage of frequency.

Reliable operation – efficient and safe
A redundant design of the key hardware and software components ensures trouble-free operation in the event of failure of individual network constituents.

In addition, encryption functions and authentication ensure maximum security for voice and data transmission.

Flexible use – indoor as well as outdoor
Save time and costs during installation. The Hytera DMR Trunking System is designed to be fast and easy to use.

The base stations for the DMR Trunking radio system are flexible, compact and cover all communication scenarios with their numerous options. As they require minimal space, a variety of operating scenarios are available:

- Installation in a standard 19” equipment cabinet
- Wall mounting for indoor use
- Pole mounting for outdoor use
- Installation in the vehicle for emergency use and mounting in the housing for temporary use

Smooth change from analogue to digital
If you are migrating from analogue to digital radio, investing in a Hytera DMR Trunking system is safe at any point in your migration process.

DMR uses a 12.5 kHz channel spacing. This means that not only do the previously set frequencies within a DMR radio network remain available, you also have the advantage of doubling capacity.

- Reuse of increasing components in digital radio
- The increasing radio system can be used with Hytera’s new digital radios for a smooth migration
- Flexibility for needs-based expansion
Infrastructure with full extensibility

High-performance infrastructure components allow for tailor-made solutions: our DMR Trunking system ensures reliable radio coverage with various base station concepts and its switching components – even for large system solutions.

Based on IP system architecture, the Hytera DMR Trunking system can also be inexpensively upgraded and maintained using standard network equipment.

Easy to administer

Hytera's network management software (NMS) for DMR Trunking systems allows for convenient and central management of the radio system as well as remote maintenance.

- Easy subscriber management
- Real-time configuration with drag & drop
- SNMP support for integration into existing network management solutions.
- Alarm signalling and forwarding via various channels (email, SMS, radios).

Fully functional dispatching

Hytera’s dispatcher solutions are designed to communicate effectively with all radio subscribers and help guide your teams in the field.

- Modular dispatcher system design
- Access control on demand
- Voice over IP support
- Localisation features

The DMR Trunking server

Hytera’s MSO not only provides the switching functionality in the DMR Trunking system. It also serves as a gateway to telephone networks and other systems. In addition, applications such as voice recorders or dispatchers can be connected via the MSO.

- DMR Trunking servers from different regions can be connected to allow cross-region and nationwide communication.
- They can be redundantly designed to make network operation even more reliable.

The right functions of our DMR trunking system for your application

The world’s largest range of services and functions allows for efficient work and optimisation of business processes.

- Individual call, group call, conference call, broadcast call and emergency call, PSTN/PABX call, semi-duplex call, full duplex calls
- End-to-end encryption of voice and data, encryption with up to 256 bits with AES, including key management via the air interface
- Enabling and disabling radio devices
- Authentication
- Multi-level redundancy concept
- Base station fallback operation
- Group registration, Group deregistration
- Cell change within a conversation (handover)
- Radio programming via the air interface (OTAP)
- RSSI reporting from the radios
- Store and forward centre for data calls