

Specifications

General	
Operating Frequency	UHF: 400-470MHz, VHF: 136-174MHz
Full Load Power Consumption	2-carrier: ≤600W; 4-carrier: ≤1200W
Operating Temperature	Normal temperature: +15℃ to +35℃, Extreme temperature: -30℃ to +60℃
Storage Temperature	-40℃ to 85℃
Dimensions (WxDxH)	2-carrier: 600X600X675mm (13U cabinet); 4-carrier: 600X600X1750mm (37U cabinet)
Humidity	Normal: 20%~75% RH; Extreme: 5%~95% RH
Weight	2 carriers: ≤110Kg; 4 carriers: ≤200Kg
Receiver	
Static Sensitivity	-118dBm @ BER≤5%
Maximum Input Level	-10dBm (BER≤0.01%)
Blocking	≥84dB @ ±1M/2M/5M/10MHz
Co-channel Rejection	≥-12dB
Adjacent Channel Selectivity	≥60dB
Intermodulation Response Rejection	≥70dB
Spurious Radiation	≤-57dBm@100KHz @ 9.00-1.00GHz; ≤47dBm @ 1.0MHz @ 1.00-12.75GHz
Transmitter	
TX Power	CHU: ≤50W; Antenna connector: ≤14W
Power Adjustment Range	5-50W
Occupied Bandwidth	≤8.5KHz @ 99% TX Power
Modulation Accuracy	≤5.0%
Frequency Error	±200Hz
Intermodulation Attenuation	≤-70dB
Adjacent Channel Power Rejection	Normal condition: ≥60dB @ 12.5KHz; Extreme condition: ≥50dB @ 12.5KHz
Spurious Emission	9K-1GHz: <-36dBm @ sending; 1G-4GHz: <-30dBm @ sending
Reliability	
Mean Time Between Failures (MTBF)	100,000 hours
Mean Time to Repair (MTTR)	30 minutes

All specifications are tested according to applicable standards and subject to change without notice due to continuous development.



Hytera DMR Trunking DS-6211



- Open Standard
- Smooth Migration
- Outstanding Functionality
- Reliable and Flexible Solution



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Hytera DMR Trunking DS-6211

Hytera DMR Trunking DS-6211 is a digital trunking system based on the ETSI open standard. It is ideal for users in the transportation, energy resource, public utilities, enterprise and business sectors.

Designed with the end-user in mind, Hytera DMR Trunking DS-6211 is simple to install and compact to transport whilst offering a superb and wide range of features and functions.

System Key Features

- **Open Standard**

DMR Trunking DS-6211 is based on the DMR Tier III standard which was defined by ETSI in 2005. With the help of a dedicated control channel, DMR Trunking DS-6211 can achieve a range of versatile functions.

- **Integrated RF System**

Integrated 2-carrier RF system significantly saves the base station space and reduces the cost of divider, combiner and duplexer.

- **IP Architecture**

All devices are based on IP architecture to ensure flexible networking and allow for system expansion.

- **Open API**

Open API allows for further developments driven by customer requirements, eg. billing systems, e-mail gateway, etc.

- **Non-centralized Structure Design**

Non-centralised structure can be used for 1 to 5 base station networks to provide a cost-effective and flexible network.

- **Smooth Migration**

DMR Trunking DS-6211 transceiver supports smooth migration from conventional to trunking. Multi-modes provide customers with different choices for their ongoing system investment.

- **Versatile Services**

Voice services, data services, priority, late entry, call back, recording, PSTN call, ESN check, authentication, E2EE, kill, GPS, emergency alarm and more.

- **Interconnection with Other Systems**

Different gateways support the interconnection between DMR trunking and other systems, such as PSTN gateway, analogue conventional gateway, MPT gateway, DMR conventional gateway, etc.

DS-6211 Base Station Overview



400-470MHz 2 carrier BS
600*600*675mm

- **Overall Delivery**

High level integrated 2-carrier 400MHz-470MHz base station supports overall delivery and power up to talk on site.

- **Components Delivery**

Base station components can be offered separately so end-users have alternative choices for their own cabinet and IP equipment.

- ① Power Distribution Unit
- ③ Transceiver Power Supply
- ⑤ Switch
- ⑦ Base Station Controller

- ② Transceiver
- ④ Transceiver
- ⑥ Base Station PSU
- ⑧ 2-channel RF System

Key Component RD9855



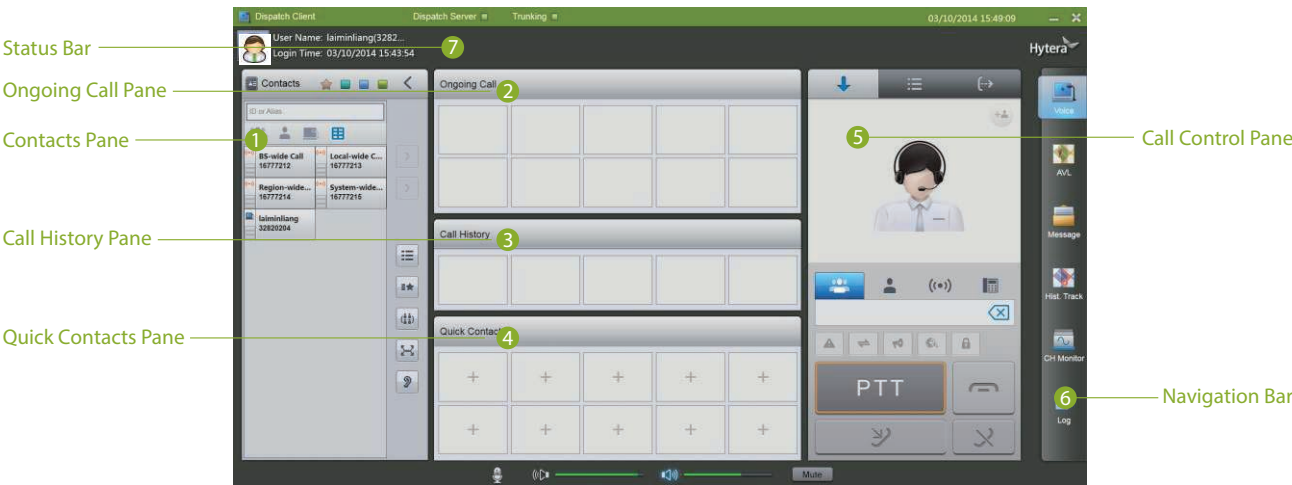
Rack design

- Standard 19 inch rack design facilitates simple installation and maintenance.

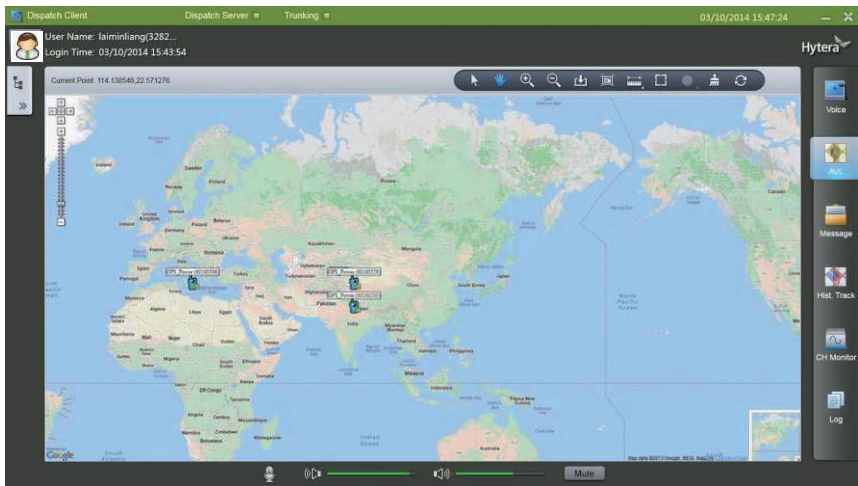
Multi-mode operation

- RD9855 supports multi-mode operation. It can work in different modes such as DMR conventional mode, MPT mode, DMR trunking mode, analogue simulcast mode and digital simulcast mode.

Dispatching System

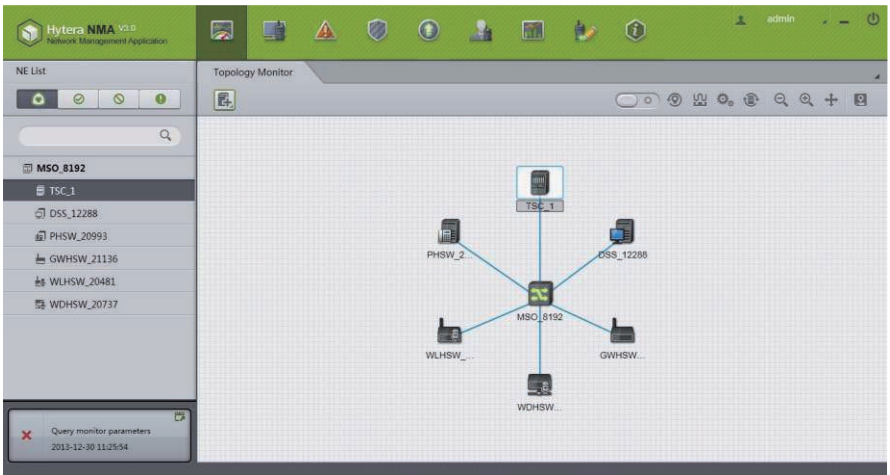


- Dispatch workstations allow operators to manage and oversee communications. Individual calls, group calls, short messages and enhanced functions such as emergency calls, call priority, call status, voice recording and message logs provide customers with more operational choices.



- Dispatch workstations offer Automatic Vehicle Location (AVL) functions based in online/offline digital maps for tracking radios.
- Dispatch workstation clients support touch screens as an option.

Network Management System



- Various management capabilities: User management, configuration management, alarm report, authority management and performance statistics.
- Remote software upgrade.
- SNMP.
- Adopting C/S structure to support multi-user operation in complex and large networks.
- OTAP (Over The Air Protocol).

DMR Trunking Terminals

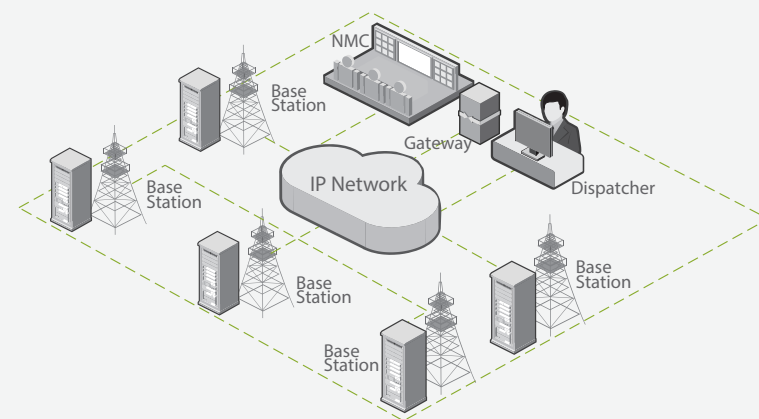


- Hytera provides the most complete range of DMR trunking terminals. Portables: PD705, PD785, X1e and X1p. Mobile: MD785. intrinsically-safe: PD795Ex. The X1e and X1p are the smallest full power DMR trunking portable radios in the world. The PD795Ex is the world's first Intrinsically-safe DMR trunking radio.
- Four-mode DMR trunking terminals support analogue conventional mode, DMR conventional mode, MPT trunking mode and DMR trunking mode.
- Trunking terminals support software upgrade from conventional to trunking mode.
- All the trunking terminals support built-in GPS and MIL-STD-810C/D/E/F/G. The portable radios are compliant with IP67 whilst the mobile radio is IP54.

Typical Networking

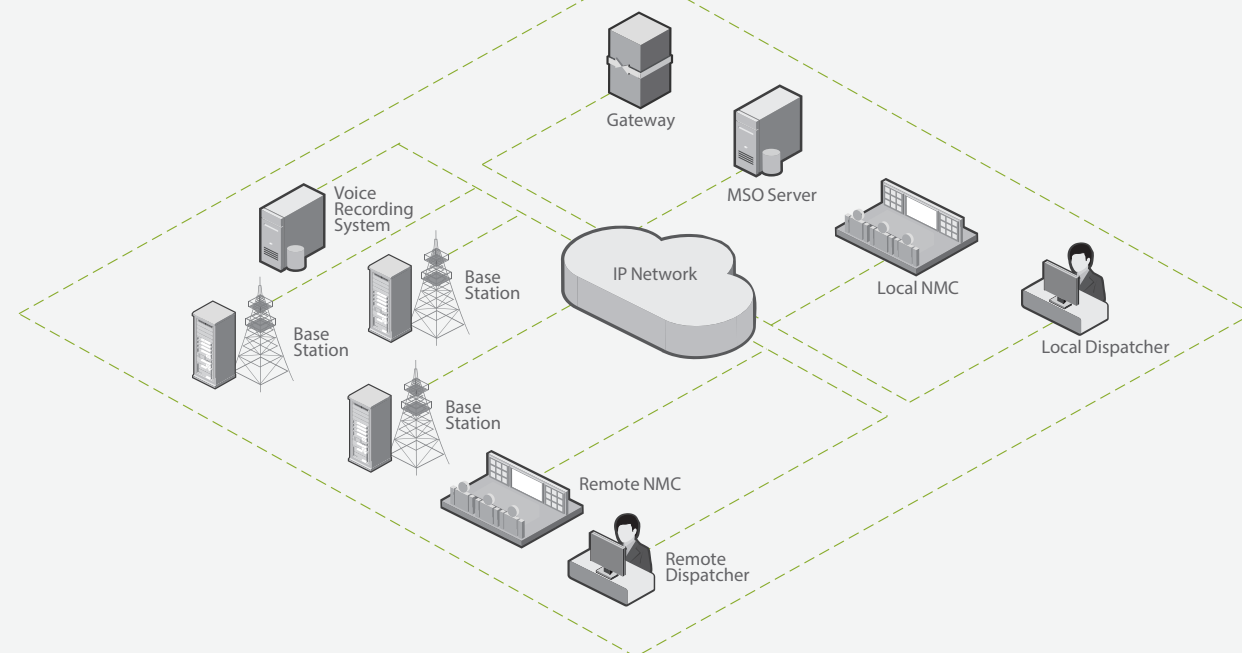
DMR Trunking DS-6211 System supports a variety of networking as below:

Non-centralised Network



- Non-centralised network can operate independently in trunking mode without MSO. This structure can support from 1 to 5 base stations or 20 carriers. Each base station can support up to 8 carriers (15 traffic channels).
- NMC (Network Management Client) and dispatcher connect to the BS through IP backbone.

Centralised Network



- Provides wider coverage and intercommunication.
- Multiple base stations connect by E1 or IP to give larger scale coverage.
- 50 base stations at most and up to 8 carriers per base station.
- Local & remote NMS and dispatcher.
- System interconnection can be achieved through different gateways.

Application Industries

Transportation



Highways, Public Buses, Taxis, Airports, Ports, etc.
Characteristics: Medium networks, large user amount, special applications, information system interconnection.

Energy Resources



Petrochemical, Mines, Smelter, Electric Power, etc.
Characteristics: Multi-site, large user amount, explosion-proof, require a high degree of protection.

Commercial Industry



Hotels, Property, Supermarkets, Construction Sites, Parks, etc.
Characteristics: Single site, medium user amount, special applications.

Public Utilities



Education, Forestry, Water Conservation, etc.
Characteristics: Multi-site, small user amount, data transfer, telemetry.