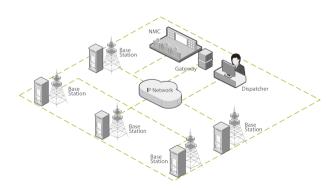


Flexible Networking

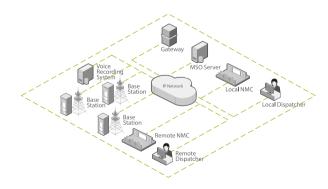
- 1 IP based architecture.
- 2 Different gateways are provided to interconnect with other system, such as PSTN, MPT, Tetra, FM, DMR conventional, etc.

Non-centralized Network



- Non-centralized network operating independently in trunking mode without MSO. This structure can support 1 up to 5 base stations or 20 carriers.
- NMC (Network Management Client) and dispatcher connect to the BS through IP backbone.

Centralized Network



- Full redundant design of all critical components.
- It is suitable for any scale of network, from small network to national network.



Rich Functionalities

- 1 Voice services, data services, priority, late entry, call queue, recording, PSTN call, ESN check, authentication, E2EE, kill, GPS, emergency alarm, etc.
- 2 Providing AIS and API for further development.

Optional Advanced Features

- Full-duplex call
- OTAP
- · GPS enhanced group
- Super group call

- Ambient listening
- ESN check
- Authentication/stun/kill
- Scangroup

- Reserved group call
- Multiple frequency bands within same system
- * Optional features are subject to change without notice due to continuous development.

Smooth Migration

DMR Trunking Lite transceiver(RD98XS) supports smooth migration from conventional to trunking mode. Multi-mode transceiver provides customers different choices for continual investment.

Multiple dialling scheme available for smooth migration:

DMR dial scheme, MPT1343 dial scheme and CPS-P3 dial scheme.

- DMR conventional mode
- DMR simulcast mode
- Analog simulcast mode
- DMR trunking mode
- MPT mode
- Analog conventional mode



Security Guaranteed Network

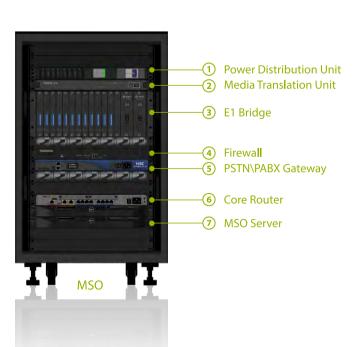
- 1 ESN Check and authentication can be used to ensure that only the legal radio can access to the network.
- 2 High level end-to-end encryption is available to protect the privacy of radio communication.
- 3 Stun/kill/revive feature can be used to guarantee the radio terminals are working under control.

High Reliability

- 1 Modularized design and multilevel fault-tolerant capability for enhanced reliability and efficiency.
- 2 MSO supports both local and geography redundancy mechanism.
- 3 Redundancy capability for key modules such as base station control unit, trunking main control channel and power supply unit, etc.

DS-6211 Mobile Switch Office (MSO)

MSO is the switch and control center of the DMR Trunking Lite system. It also provides interfaces for different applications and interconnections with other systems.



DS-6211 Base Station(BS)

Compact Design

High level integration for 330-470 MHz base station with 2-carrier RFDS.

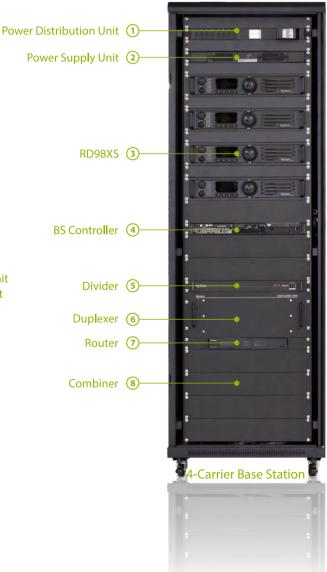
MPT-DMR Hybrid mode

The base station can work in DMR trunking mode and MPT mode at the same time.

Trunking Simulcast

The base station can work in trunking simulcast mode.

All base stations can use the same frequency in the network.



Network Management System

Network Management System (NMS) is composed of the server and network management client (NMC). It supports management, monitoring, operation and maintenance functions for the DMR Trunking Lite system.

- 1 Powerful management capabilities
 Topology management, configuration management, fault management, security management and performance statistics.
- 2 SNMP is used to facilitate integration into different NMS.
- Multi-user operation supported with C/S structure
- 4 Easy maintenance with remote upgrade, OTAP, IP link detection, system health monitoring, etc.



Dispatching System

Dispatch Workstation(DWS) is designed for efficient communications, remote management, dispatching and deployment by professional users.

- (1) Redundancy design ensures reliability.
- 2 Multi-touch technology and user-friendly UI greatly facilitate operation.
- 3 Enhanced multiple calls ensures efficient command & dispatching in emergencies.
- 4 All IP structure allows high flexibility and scalability in deployment.
- 5 High mobility with panel operation is applicable to tablets

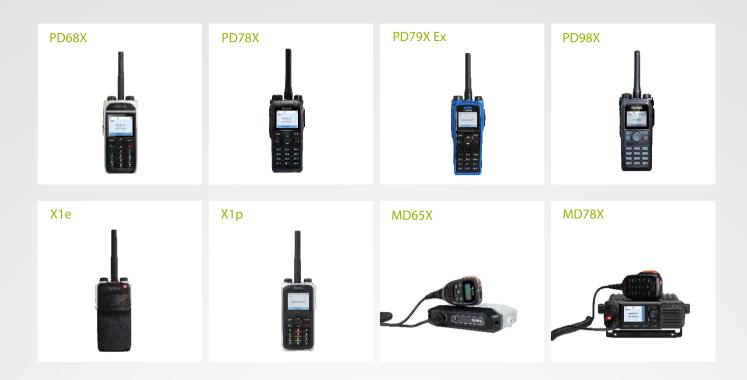


Digital Voice Recording System

Digital Voice Recording System (DVRS) can record the voice calls and text messages across the complete network without any loss. These can be retained for future use such as post-incident analysis.

- 1 IP-based digital network-wide voice/message recording.
- 2 Free access with B/S architecture.
- 3 Statistics analysis for voice and SMS recording data.
- 4 Online play and download.
- 5 Flexible configuration based on subscriber, Base station and MSO.





DMR Trunking Terminals >>

Highlights

- The most complete DMR trunking terminal portfolio. Portable radio PD70X, PD78X, PD98X, X1e and X1p, mobile radio MD78X, intrinsically-safe radio PD79X Ex.
- The smallest full power DMR trunking portable terminal in the world-X1e & X1p. The world's first full duplex DMR Trunking mobile radio, MD78X.
- Four-mode DMR Trunking terminal, supporting analog conventional mode, DMR conventional mode, MPT Trunking mode and DMR Trunking mode.
- All the terminals support software upgrade from conventional mode to trunking mode.
- All the portable terminals support at least IP67, all the terminal radios supports GPS and MIL-STD-810C/D/E/F/G.

Application Industries

Transportation



Highway, Public bus, Taxi, Airport, Port, etc. applications, information system interconnection.

Energy Resources



Petrochemical industry, Mine, Smelter, Electric Power, etc. Characteristics: Medium network, large number of users, special Characteristics: Multi-site, large number of users, explosion-proof, high degree of protection.

Commercial Industry



Hotel, Property, Supermarket, Construction site, Park, etc. Characteristics: Single Site, medium user number, special application.

Public Utilities



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

System Specifications

ltem	Non-centralized MSO	Centralized MSO
Max. Base Station Capacity (pcs)	5	50
Max. Carrier Capacity per Base Station	8	8
Network Capacity (carrier)	20	200
LDS Capacity (pcs)	5	20
NMC Capacity (pcs)	5	20
PSTN/PABX Interconnect (way per gateway)	120(4*E1)/30(1*E1)	
Group Call Set-up Duration (ms)	<300 (within a single MSO)	

BS Specification		
Frequency Range	U1: 400-470MHz; U2: 450-520MHz; U3: 350-400MHz; U5: 806-941MHz; VHF: 136-174MHz	
Carrier Capacity	Up to 8 carrier	
Max. Power Consumption	2-carrier: ≤600W 4-carrier: ≤1200W 8-carrier: ≤2400W	
Operating Temperature	-15°C to + 35°C	
Extreme Operating Temperature	-30°C to + 60°C	
Storage Temperature	-40°C to + 85°C	
Dimensions (H×W×D)	2-carrier: 675×600 ×600 mm (13U) 4-carrier: 1,750×600×600 mm (37U)	
Re	ceiver	
Static Sensitivity	-118dBm@BER5%	
Blocking	≥84 dB@±1 M/2 M/5 M/10 MHz	
Co-channel Rejection	-12dB to 0dB	
Adjacent Channel Rejection	≥60dB@12.5KHz	
Intermodulation Response Rejection	≥70dB	
Spurious Emission	9.00KHz to 1.00GHz,≤-57dBm@100KHz 1.00GHz to 12.75GHz,≤-47dBm@1MHz	

Transmitter		
TX Power	≤50W (VHF, UHF1, UHF2, UHF3 / ≤35W(UHF5)	
Adjust power range	5-50W	
Available Bandwidth	≤8.5kHz@99% TX power	
Modulation Accuracy	≤5%	
Frequency Offset	≤±200Hz	
Intermodulation Attenuation	≤-70dB	
Adjacent Channel Power Rejection	Normal: ≥60 dB@12.5 kHz	
	Extreme: ≥50 dB@12.5 kHz	
Spurious Emission	9.00 KHz to 1.00 GHz: <-36 dBm@sending, <-57 dBm@standby 1.00 GHz to 4.00 GHz: <-30 dBm@sending, <-47 dBm@standby	
System R	eliability eliability	
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.













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