



Hytera SmartOne

A professional unified Communications Solution

- Inter-system communication
- Unified dispatching
- Plug-in module design
- Open platform

How to communicate to other system users? How to dispatch all system users in one?





Hytera SmartOne, a new generation unified communication platform, realises multisystem intercommunication and unified dispatching, and thus brings our customers unlimited communication.

Hytera SmartOne's goal is to achieve communication among radio users, dispatchers and public network users through network inter-connection anytime and anywhere.

The powerful dispatching client allows the managers and dispatchers to quickly command all users in different networks.

Last but not least, Hytera SmartOne provides a unified API interface for integrators to develop more flexible and customised applications for end users.

To enrich communications through SmartOne



Radio/PSTN/GSM

Trunking Conventional PABX

DS-6610 GPUC Gateway PUC for wired interconnection

DS-6610 VPUC Vehicle PUC for wireless interconnection

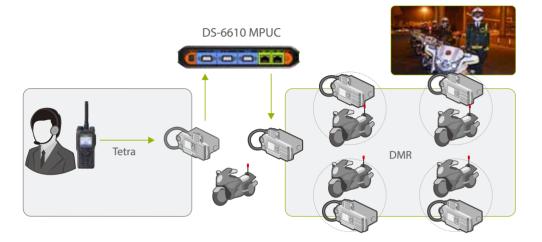
DS-6610 MPUC Mini PUC for wireless interconnection Radio



Wireless inter-connection application

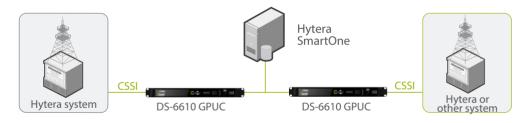
This solution uses a gateway to connect different network's mobile radios to make inter-system communications.

Typical case: There are two departments, one has a DMR network, and the other a Tetra network. In certain circumstances the two departments need to communicate and the command centre needs to dispatch both. Hytera SmartOne solution enables the installation of two mobile radios and one gateway in the emergency vehicle to help users communicate between systems.



Wired inter-connection application

This solution uses a PMR manufacturer's system CSSI (Console Subsystem Interface) or ISSI (Inter Subsystem Interface) interface to connect to the Hytera SmartOne system, to achieve inter-system communication.



Typical case: The Urban area adopts a DMR Trunking system, while the suburbs adopt DMR Tier 2. Via Hytera SmartOne, the two systems can be connected seamlessly; terminals can roam between these two systems and be contacted via a common dispatcher.



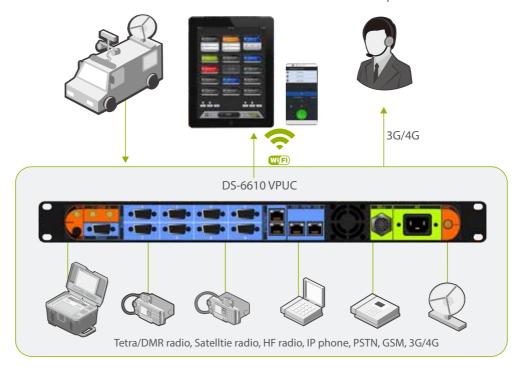
Features for Hytera DMR Tier 2 and Tier 3 Interconnection

- One number for one terminal in both networks
- Roaming in conventional and trunking networks
- Individual call and message, group call and message
- Inter-system E2EE
- No need to re-codec for inter-system call

Mobile Inter-connection

Hytera SmartOne DS-6610 VPUC supports car-mounted installations, which makes mobile inter-connection and dispatching possible.

Typical Case: DS-6610 VPUC is intended as a fast deployment on-site command center which achieves intercommunication among different devices. With multiple interfaces and powerful processing services, the DS-6610 VPUC can achieve inter-department cooperation and enable real-time communication between the onsite command center and headquarters.



Unified Inter-department Dispatching

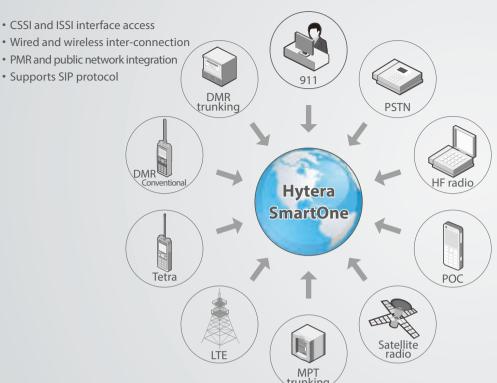
By connecting different networks together into Hytera SmartOne, the dispatcher based on this platform can easily achieve unified dispatching for all network users.

Typical Case: To handle a major emergency, multiple departments operating in various systems like DMR Trunking, TETRA or the PSTN Network, may be dispatched. With Hytera SmartOne, communications and dispatching among these departments can be achieved.





1 Multi-system intercommunication



2 Advanced voice process technology, Humanised user experience

- Various voice format conversions: including G.711, G.729, AMBE++, tetra code.
- Voice detection technology: when communication is between a phone and radios, this
 can automatically assign talking authority to the phone by detecting the voice activity of
 the radios.
- **Gain control technology:** this can adjust voice from different communication systems to a uniform level without decreasing voice quality, so as to improve the user experience.
- Supports E2EE.

DS-6610 MPUC

Specification

2 way access: 2 mobile radio interface

Ethernet interface: 2 X RJ45, 100/1000M Base-T

Power supply: 12VDC, 1.5A

Operating temperature: 0° to 40°C **Storage temperature:** -10° to 60°C

Humidity: 10% ~ 90%



19 Unified Dispatching

Abundant features are available for unified dispatching among different systems, such as individual call, group call, group patching, all call, broadcast call, priority call, emergency call, conference call, monitoring and ambience listening.



Mobility-oriented Dispatching Platforms

Customised GUI

Multiple plug-ins, like short messages, video, photos and reports are supported by the dispatch client and customers can determine the dispatch client interface layout based on their actual needs.

Whole network unified user management
 Supports whole network user status and user data management.

4 Hot standby

The key network elements can support redundant deployment, which provides a 24/7 un-interrupted service.

6 Open API based on unified platform

Unified interface: provides a SIP based or Hytera API interface for integrators to develop their own applications.

DS-6610 VPUC

Specification

12 way access: 8 mobile radio interface; 2 PSTN(1 FXO and 1 FXS); 2 GSM

Supports Wifi AP

Supports LTE data transmission

Ethernet interface: 2 X RJ45, 100/1000M Base-T

Power supply: DC input: 12VDC, 1.5A;

AC input: 100 ~ 240VAC, 50 ~ 60Hz

Operating temperature: -20° to 60°C **Storage temperature: -20°** to 60°C

Humidity: 10% ~ 90%





SmartOne Android Phone Dispatcher

In order to improve customer experience and fulfill customers' verified needs, Hytera keeps on designing and developing innovative products. Android Smart Phone and Android App are two innovative products based on SmartOne platform, which can realize SmartOne dispatching client function.





Google Map Visualized Dispatching

Voice Services

- Contact management
- Half-duplex call
- Full-duplex call(to Tetra)
- Individual call
- Group call
- Emergency call
- Priority call
- Broadcast call
- All call

Data Services

- Ambience listening
- Discreet listening
- Kill, Stun/Revive
- DGNA
- SDS
- Voice play back
- GPS





SmartOne connect function				
	Wired gateway		Window gatoway	
	DMR, MPT, Tetra, XPT	Hytera DMR Tier 2 & Hytera DMR Tier 3	Wireless gateway	
Group call	√	√	√	
Group message	√	√	√	
Individual call		√		
Individual mesasge		√		
E2EE		√		

SmartOne dispatch f	unction	
	Individual call	
	Group call	
Call features	Emergency call	
	Priority call	
	Broadcast call	
	All call	
	Call divert	
	Multi-party call	
	Call queueing	
	Conference	
	Simultaneous call	
	GPS positioning	
	Real-time track	
	Map-based individual call	
Visualized dispatch	Map-based crosspatch	
	Geofencing alarm	
	Hiding a radio from map	
	POI (Point of interest)	
	Ambience listening	
	Discreet listening	
Supplementary features	Interrupt	
	Override	
	DGNA	
	Group patch	
	Stun/Revive	
Security features	Kill	
	E2EE	
	Text message	
	Status message	
Message features	Call back message	
	Emergent alarm	
	Message template	
	Email access	
	-	

System specification	
Number of MSs supported by server	100,000/server
Server voice capacity (in and out)	1000call/server
Number of SAP supported by server	200/server
GPS server processing capacity	500/second
Client voice capacity (monitor + calling)	28 call/client
Number of clients	200/server
Number of MSs supported by the client	5000/client
Number of MSs that is displayed on the map in a real-time way	200/second
Required disk capacity of server (call × hour)	30M/(call×hour)
Time delay	<20ms
Jitter	<10ms
Packet loss rate	<0.1%
Bandwidth(for voice)	80Kbps/call











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