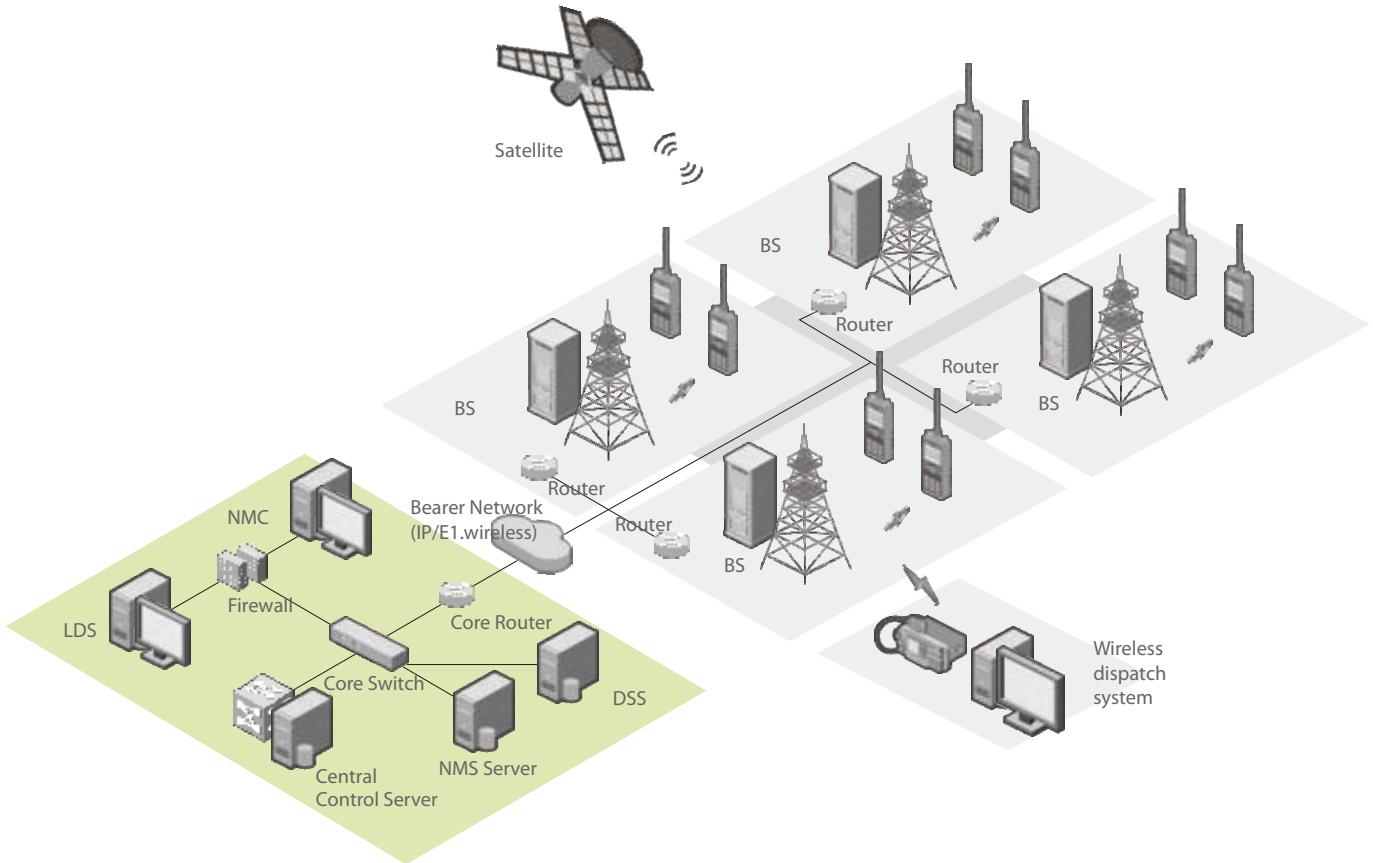


Architecture

Hytera DMR simulcast system consists of MSO (Mobile Switching Office), Base Station, Dispatch System, NMS, Service Terminals and Bearer Network. One MSO supports up to 100 Base Stations or 200 carriers. A single DMR simulcast Base Station can support up to 2 carriers.



DS-6310 Base Station Overview



Single Carrier BS (8U)

- ① Built-in Router
 - ② Synchronized Expansion Unit
 - ③ Transceiver (RD98XS)
 - ④ Power Unit & Duplexer
- Compact design, high integration, easy for delivery and deployment.
 - Module structure for faster maintenance and modules replacement.

Specifications

General	Operating Frequency	VHF: 136–174MHz; UHF3: 330–400MHz; UHF1: 400–470MHz
	Standard Compliance	DMR Tier II
	BS Capacity per MSO	100
	Carrier Capacity per MSO	200
	Subnet Capacity	99
	Carrier Capacity per BS	1 or 2
	Channel Spacing	≥ 12.5kHz
	Duplex Spacing	VHF ≥ 5.3MHz ; UHF1/UHF3 ≥ 10MHz
	Multi-access Method	TDMA
	Modulation	4FSK (index: 0.27)
	Modulation rate	9.6Kbps/carrier
	Full Load Power Consumption	Single-carrier BS ≤ 200W; Dual-carrier BS ≤ 400W
	Operating Temperature	-30°C to 60°C
	Storage Temperature	-40°C to 85°C
	Operating Humidity	5% to 95%RH
Dimensions (H*W*D)	Single-carrier BS: 355*425*482.6mm; Dual-carrier BS: 900*600*600mm	
Weight	Single-carrier BS ≤ 50kg; Dual-carrier BS ≤ 110kg	

Receiver	Static Sensitivity	-118dBm@BER5%
	Blocking	≥ 84dB
	Co-channel Rejection	-12 to 0dB (12.5kHz)
	Adjacent Channel Selectivity	≥ 60dB (12.5kHz)
	Intermodulation Response Rejection	≥ 70dB
Spurious Emission	≤ -57dBm@100kHz	

Transmitter	TX Power	1 to 50W (adjustable)
	Output Power Tolerance	Normal: ± 1.5dB; Extreme: -3 to +2dB
	Modulation Accuracy	5%
	Frequency Offset	± 16Hz
	Adjacent Channel Power Rejection	≤ 60dB (12.5kHz)
	Spurious Emission	9kHz to 1GHz: TX: ≤ -36dBm @ 100kHz ; Standby: ≤ - 57dBm@100kHz 1GHz to 12.75GHz: TX: ≤ - 30dBm@1kHz ; Standby: ≤ - 47dBm@1kHz

All specifications are subject to change without notice due to continuous development.

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Encryption features are optional and have to be configured separately; they also are subject to German and European export regulations.

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