ZXSDR BS8700

DMR Base Station

Based on Caltta's advanced SDR platform, DMR ZXSDR BS8700 implements the distributed architecture that separates the baseband from the radio frequency (RF).

ZXSDR BS8700 consists of ZXSDR B8200 and ZXSDR R8881 and compatible with both digital and analog trunking.

BBU: ZXSDR B8200

- SDR Architecture
- Highly Integrated, Supports 16 Carriers Simultaneously
- Quick Deployment, Save More Than 30% on Installation Time
- Highly Reliable, Full Redundancy Design

Capability	16 Carriers
Slot Capacity	2/ Channel
Multi-access Method	TDMA
Size(Hx Wx D)	88.4 mm x 482.6 mm x 197 mm
Weight	≤7.5kg
Power Consumption	≤135W
Power Supply	-48 V DC/ 220 V AC
Synchronization	GPS
Operating temperature	-30℃ to +60 ℃
Operating humidity	5%~95%
Dust and Water Resistance	IP20
Standard	ETSI TR 102 398 V1.5.1 (2023-11), ETSI TS 102 361-1 V2.6.1 (2023-05) ETSI TS 102 361-2 V2.5.1 (2023-05), ETSI TS 102 361-3 V1.3.1 (2017-10) ETSI TS 102 361-4 V1.11.1 (2021-01)

RRU: ZXSDR R8881

- Efficient Amplifier, Natural Heat Dissipation,80% Power Saving
- Outdoor Deployment, Minimum Feeder Loss,Maximum Coverage Radius
- Adaptable Multi-carrier Technology, Cost-effective

Specifications

Frequency	400~470MHz
Adjacent channel selectivity	≥ 60 dB @ 12.5 kHz, ≥ 70 dB @ 25 kHz
Channel Spacing	Analog: 25/12.5 kHz; Digital: 12.5 kHz
Multi-access Method	TDMA
Size(H x W x D)	370 mm x 320 mm x 215 mm
Weight	≤ 20 kg
Working Mode	DMR / MPT Trunking , DMR / MPT Conventional / Simulcasting
Power Supply	-48VDC
Operating Temperature	-40℃~+60℃
Operating Humidity	5% ~ 98 %
Dust and Water Resistance	IP67
Modulation	Analog: FM (optional), Digital: 4FSK
Digital Sensitivity	-125dBm (BER 5%) / 0.128uV
Diversity Mode	2 Diversities, 4 Diversites
Frequency stability	≤ ±0.05 ppm
Output RF Power	≤60W (Up to 4 carriers)
Audio Distortion	≤ 3%
Duplex Spacing	10MHz(can be customized)
Intermodulation Rejection	≥70dB
Receiver spurious rejection	≥70dB

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