

TBS6000M

DMR Digital Trunking Integrated Base Station



The TBS6000M Digital Trunking Integrated Base Station adopts a highly integrated design, and features compactness, portability and high mobility. It supports multiple power supply modes: built-in battery power, AC power, and DC power. With one-touch startup, it enables rapid network deployment. Equipped with a built-in public network backhaul module, it facilitates network establishment and meets the communication requirements of all emergency scenarios.

- Highly Integrated
- Quick Commissioning
- Reliable and Durable
- Versatile Application Scenarios
- Rich Configuration
- Flexible Powering
- Compact and Portable
- Public Network Backhaul



Specification

General	
Frequency Range	350MHz: UL: 351~356MHz; DL: 361~366MHz 370MHz: UL: 372~376MHz; DL: 382~386MHz
Channel Spacing	12.5kHz
Protocol	DMR
Duplex Spacing	10MHz
Modulation Rate	9.6kbps
Modulation Scheme	4FSK
Multiple Access Method	TDMA
Carriers	2 Standard Carriers,expandable to 4 carriers

Physical	
Dimensions (H×W×D)	Standard : 362mmx203mmx122mm(With Handle) Equipped Fan: 362mmx203mmx161mm(With Handle) Equipped Battery: 486mmx203mmx122mm (With Handle and Battery)
Weight	Standard: ≤7.5kg Equipped Fan: ≤8.0kg Equipped Battery: ≤10kg
Power Supply	DC 10.8V~15V (External power adapter supports 220V AC and -48V DC)
Power Consumption	≤ 80W@2x5W ≤105W@2x10W
Battery Runtime	More than 4 hours
Operating Temperature	-40°C ~ +55°C
Storage Temperature	-50°C ~ +85°C
Operating humidity	5% ~ 95%
Dust and Water Resistance	IP67
Seismic Resistance	GB/T 4798.5 7M2
Transmission Immunity	ETSI EN 300 386/ ETSI TS 125 113

Transmitter	
Single Carrier RF Power	Low Power: ≤ 5W High Power: ≤ 10W
Frequency Stability	0.05ppm
Adjacent Channel Power Ratio (ACPR)	≤-60 dB (±12.5KHz) ≤-70 dB (±25KHz)
Spurious Emission	≤-36dBm@100KHz (9KHz~1GHz) ≤-30dBm@1MHz (1GHz ~12.75GHz)

Receiver	
Static Sensitivity	≤ -121dBm@BER5%
Blocking	≥96 dB
Adjacent Channel Selectively	≥60 dB
Co-channel Suppression	≥-12dB
Intermodulation Response Suppression (IMRS)	≥70dB
Spurious Response Immunity	≥70dB
Spurious Emission	≤-57dBm@100KHz (9KHz~1GHz) ≤-47dBm@1MHz (1GHz ~12.75GHz)

Reliability	
Mean Time Between Failures (MTBF)	≥250,000 hours
Mean Time To Repair (MTTR)	1 hour

General Disclaimer:
The specifications in this document are in accordance with the applicable standard test. Due to the continuous technology development, Caltta may change the specifications without prior notice.

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