# DMR Trunking Cube

## Most flexible DMR base station

### Flexible deployment

The DMR Trunking Cube is designed with fast deployment and operation simplicity in mind. Save time and cost in installation and associated space required. Different options will match any communication scenario: wall-mounted for indoor coverage, pole-mounted for outdoor coverage, vehicle-mounted for emergency situations, and box-mounted for temporary operation.

### Software-defined radio (SDR)

Within the same hardware platform you can control carrier capacity (1 to 8), manage frequencies via the software controller in order to deliver a flexible user-friendly system. SDR ensures the base station is easy to control and offers smooth expansion options.

### All in one

The Hytera Trunking Cube base station is highly integrated: Only provide power to the base station and start your communication.  Additional, the base station supports diversity receiving and can provide excellent coverage.

### High spectrum efficiency

Based on multicarrier technology, channel spacing is more than 50 KHz instead of the traditional 250 KHz plus. What's more, it can work in DMR trunking simulcast mode, which means all base stations implemented in a single network can adopt the same frequencies.

# Technical data DMR Trunking Cube base station

## General data

| | |
|---|---|
| Protocol | DMR Tier III |
| Frequency | UHF: 350 – 370 MHz<br>UHF: 400 – 470 MHz |
| Carrier capacity | 1 – 8 |
| Transmission | Dual optical fiber port |
| Time synchronization | GPS / Beidou / IEEE 1588 V2 |
| Channel spacing | ≥ 50 kHz |
| Duplex spacing | 10 MHz |
| Power supply | DC 48 V<br>AC 220 V with external adapter |
| Power consumption | ≤ 550 W |
| Operating temperature | -40 °C to +55 °C |
| Storage temperature | -40 °C to +85 °C |
| Operating humidity | 5% to 95% |
| Atmospheric pressure | 70 kPa to 106 kPa |
| Protection class | IP65 |
| Wind resistant | 240 km/h |
| Lightning protection | Power supply port: 20 KA |
| Weight | < 26 kg |
| Dimensions (H × B × T) | 435 × 340 × 157.5 mm |
| MTBF | ≥ 100,000 h |

## Receiver

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|---|---|
| Static sensitivity | -122 dBm @ BER 5% |
| Co-channel rejection | ≥ -12 dB |
| Adjacent channel rejection | ≥ 60 dB |
| Intermodulation response rejection | ≥ 70 dB |
| Blocking | ≥ 84 dB |
| Spurious response rejection | ≥ 70 dB |
| Spurious emission | 9.000 kHz to 1.00 GHz: ≤ -57 dBm @ 100 kHz<br>1.000 GHz to 12.75.GHz: ≤ -47 dBm @ 1 MHz |

## Transmitter

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|---|---|
| Output power per carrier (Antenna port) | 2 Channel ≤ 50 W<br>4 Channel ≤ 25 W<br>6 Channel ≤ 13 W<br>8 Channel ≤ 10 W |
| Frequency deviation | ≤ 5% |
| Occupied bandwidth | ≤ 8.5 kHz |
| Frequency stability | ±0.5 ppm |
| Intermodulation attenuation | ≤ -70 dB |
| Spurious emission | 9.000 kHz to 1.00 GHz: ≤ -36 dBm @ 100 kHz<br>1.000 kHz to 12.75.GHz: ≤ -30 dBM @ 1 MHz |

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Hytera

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