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DMR 4940

DMR MISSION CRITICAL REPEATER

#PublicSafetyCommunication



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DMR MISSION CRITICAL REPEATER

The ASTELA DMR4940 Repeater is a multiband repeater radio with many scenarios in public safety communication.

Multiple Operation Modes

ASTELA DMR4940 operate in dual band with standard output power and in single band with high output power. It receives and transmits analog, digital clear or digital encrypted signals transparently. Repeater radio has Linux operating system.

ASTELA DMR4940 operates as Mobile Repeater Transceiver which creates local coverage for radio users or Fixed Repeater that becomes a component of a wide area communication system. It can be used in BiGA DMR radio communication system as wide area conventional system and wide area trunk system modes.

Resilience to Severe Environmental Conditions

Institutions in charge of public safety may need to use these radios in challenging environments such as very high or very low temperature, high humidity, low pressure and dust. ASTELA DMR4940 is designed by considering these requirements and supports MIL STD 810E standards.

General Specifications

- Trunk or conventional
- Tier-2 or tier-3 operation

Technical Specifications

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|-------------------------------|--|
| Frequency | : 136-174 MHz (VHF) or 380-470 MHz (UHF) |
| Sensitivity | : -119 dBm (VHF) |
| BER | : ≤ 0.1% |
| Rf power output (dual band) | : 10-40 W (VHF) 10-30 W (UHF) |
| Rf power output (single band) | : 10-90 W (VHF) or 10-70 W (UHF) |
| Frequency accuracy | : ≤ 0.5 ppm |
| Weight | : 2425 g |
| Dimensions | : 61x 177 x 246 mm |
| Operating temp. range | : 30°C / +60°C |
| Storage temp. range | : -40°C / +85°C |
| Humidity | : 90%, +50°C |
| Power supply | : 13.6VDC ± 20% or 90-264 Vac, 50 Hz |
| Operating System | : Linux |

Standards and Certificates

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|------------------|--|
| DMR | : EN 102 361-2, 3, 4 |
| LVD | : EN 60950, IEC 62368 (2014/35/EU Directive) |
| EMC | : EN 301 489-1, EN 55032 (2014/30/EU Directive) |
| Digital | : ETSI EN 300 113 |
| Analog | : ETSI EN 300 086 |
| High temperature | : MIL-STD-810G M 501.6 Pro I Cat A1, Pro II Cat A1 |
| Low temperature | : MIL-STD-810G M 502.6 Pro I Cat C2, Pro II Cat C1 |

Specifications are subject to change without any notice. | All tolerances are within ±10%.