

TETRA TRUNKED RADIO FROM R&S



BASE STATIONS

R&S®ACCESSNET™-T DIB-500 R4 Digital Indoor Base Station **Reliable basis for professional TETRA communications with** **R&S®ACCESSNET™-T**

The R&S®ACCESSNET™-T DIB-500 R4 is the next step in the evolution of base stations in the R&S®ACCESSNET™-T product portfolio of Rohde & Schwarz. Due to its excellent performance and redundancy properties, the R&S®ACCESSNET™-T DIB-500 R4 is especially suited for ensuring radio coverage in mission-critical TETRA-PMR networks of all sizes. These networks range from single-cell networks to networks requiring nationwide radio coverage. While used indoors, it is the ideal complement to mobile and outdoor variants in the tried and tested family of R&S®ACCESSNET™-T base stations

- Unsurpassed radio characteristics - Outstanding transmit and receive power
- Reliable network coverage and secure availability due to seamless integration in the scalable R&S®ACCESSNET™-T redundancy concept
- Flexible support of a wide variety of antenna configurations
- Unlimited compatibility with all R&S®ACCESSNET™-T network elements
- Excellent modularity, compactness and energy efficiency - Minimum site requirements and reduced cost of ownership for the operator

R&S®ACCESSNET™-T DTX-500 Digital Transceiver eXchange **Cost-efficient and expandable radio base station for R&S®ACCESSNET™-T**

The R&S®ACCESSNET™-T DTX-500 (Digital Transceiver eXchange) was developed by Rohde & Schwarz as a flexible and cost-efficient base station for TETRA trunked radio. Its highly modular design permits comprehensive and scalable expansions up to 16 carriers – even while in use.

The R&S®ACCESSNET™-T DTX-500 can be connected in a variety of ways to exchanges in ring or star topologies (point-to-point connections) or all combined configurations, thus improving the system-internal redundancy properties. Ring topologies can easily be expanded at any time. In smaller systems with only a few carriers per radio cell, the R&S®ACCESSNET™-T DTX-500 can even be connected to the exchange via 64 kbps lines. The R&S®ACCESSNET™-T DTX-500 supports a number of interfaces and offers gateways to public and private telephone networks (both digital and analog, e.g. PSTN, PABX) as well as to public and private data networks.

With the support of up to 4 transmitting- and 2x4 receiving-antennas the R&S®ACCESSNET™-T DMX-500 R2 can virtually be connected to any antenna configuration. The outstanding transceiver power of 25 Watts ensures for comprehensive radio coverage.



R&S®ACCESSNET™-T DOB-500 Digital Outdoor Base Station **Ruggedly designed and compact TETRA base station for outdoor use**

In follow-up to its tried-and-true family of TETRA base stations for indoor scenarios and for mobile radio systems, Rohde & Schwarz is adding the R&S®ACCESSNET™-T DOB-500 to its R&S®ACCESSNET™-T mobile radio system to meet the demand for a base station designed specially for outdoor scenarios. The

R&S®ACCESSNET™-T DOB-500 is a base station equipped with two carriers and is available for all common frequency ranges between 380 MHz and 921 MHz. Owing to its fanless operation and design in accordance with protection class IP65 in a compact aluminum case, the R&S®ACCESSNET™-T DOB-500 is thoroughly protected against environmental and weather conditions. The wide operating temperature range makes outdoor deployment possible in both very hot and very cold climates.

Very small dimensions, low weight, and the innovative installation concept translate into minimum site requirements, thus significantly reducing investment costs as well as rental costs during operation. Since the R&S®ACCESSNET™-T DOB-500 can be flexibly fastened directly to the mast near the antenna, the lower costs you enjoy are accompanied by a significant reduction in cable loss. Plus, you can take full advantage of the high receiver sensitivity.

The R&S®ACCESSNET™-T DOB-500 can easily be connected to any exchange via various network topologies with different stages of redundancy.

- Highlights of the R&S®ACCESSNET™-T DOB-500:
- Minimal requirements regarding the location
- Modular housing concept with thermally isolated, shielded and splash-proof chambers - safety class IP65
- Smallest dimensions and very low weight
- Operating temperature from -40°C to +50°C, without fan, ventilation through natural convection
- Minimized investment and operating costs for the network operator.