



Version

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ACCESSNET®-T DIB-500 R4 Digital Indoor Base Station

Reliable basis for professional TETRA communications with *ACCESSNET®-T*

- ◆ Best radio characteristics
 - Outstanding transmission power and receiver sensitivity
- ◆ Reliable network coverage and secure availability due to seamless integration in the scalable *ACCESSNET®-T* redundancy concept
- ◆ Support of a wide variety of antenna configurations
- ◆ Unlimited compatibility with all *ACCESSNET®-T* network elements
- ◆ Excellent modularity, compactness, and energy efficiency
 - Minimum site requirements and reduced cost of ownership for the operator



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Specifications

Frequency ranges	
Frequency bands	380 MHz to 470 MHz
	806 MHz to 866 MHz
	(others upon request)
Characteristics	
Receiver sensitivity ¹⁾	
Static (4 % BER on TCH7,2)	–119 dBm
Dynamic (4 % BER on TCH7,2 with TU50)	–113 dBm
Dynamic (EN 300 392-2 class A conditions)	–108 dBm
Dynamic (EN 300 392-2 class B conditions)	–110 dBm
Output power at transmitter output	50 W
Maximum RF output power (at top of cabinet)	25 W ²⁾
Multipath reception (diversity)	dual as standard
Operating mode	duplex
Antenna configurations	TX/RX
	TX/RX + RX
	2 × TX/RX (high-power version)
Antenna coupling network	hybrid combiner
	cavity combiner (additional equipment)
	high-power version with 2 duplexers
Radio capacity	
Maximum number of TETRA carriers	8
Maximum number of communications channels	31

General data	
Ambient conditions (in line with ETS 300019-1-3 class 3.1)	
Operating temperature range	+5 °C to +45 °C
Storage temperature range	–40 °C to +70 °C
Relative humidity	5 % to 85 % (noncondensing)
Power supply	48 V DC (nominal)
	110 V AC (additional equipment)
	230 V AC (additional equipment)
Power consumption	550 W (2 carriers)
	1100 W (4 carriers)
Cooling	active fans integrated
Protection class	IP 40
Interfaces	primary rate interface, Ethernet LAN, GPS signal, external alarm contacts
Features	
Remote and local options	configuration of base station
	software upgrade
	management of internal and external alarms
	network-management access
Internal redundancy of base station	full-featured fallback mode in orphaned situation
Synchronization	GPS
Additional equipment	uninterruptible power supply (UPS)
	AC power supply unit (PSU)
	additional remote monitoring system (RMS)
	cavity combiner
Dimensions (W × H × D) ³⁾	600 mm × 910 mm × 600 mm (23.62 in × 37.40 in × 23.62 in)
	18 height units
Weight ³⁾	max. 100 kg (220.4 lb)

Ordering information

Designation	Type
Digital Indoor Base Station	ACCESSNET®-T DIB-500 R4-x ⁴⁾

¹⁾ Sensitivity at top of cabinet without diversity.

²⁾ With 2 duplexers.

³⁾ With four TETRA carriers.

⁴⁾ Number of TETRA carriers included in actual ACCESSNET®-T DIB-500 R4.



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