



DXT3 TETRA SWITCH

Fast and powerful

Professionals need absolutely reliable radio communications. The DXT3 TETRA switch is the safe choice because it is mission critical, fault tolerant and enjoys a proven track record of resiliency.

The DXT3 switch uses the same telecom grade technology that today connects 1.6 billion people worldwide. It can stretch from small installations to large nationwide systems and anything in between.

The DXT3 is fast: it is the only TETRA switch that can guarantee call setup in less than 0,5 seconds, no matter the size of the network. As a rule, the call setup time is around 0,3 seconds.

More powerful per m²

The DXT3 packs maximum performance into a single frame. It is all-in-one package with the combined functionality of a packet data gateway, base station controller, PSTN/PABX gateway, and many more.

A single DXT3 switch can easily handle up to 100,000 users and 30,000 talk groups.

This switch offers the vital services the professionals need. In particular, it outperforms others when it comes to emergency calls, scanning and to managing talk groups and group memberships.

Can save money too

On an average, the power consumption of the DXT3 is less than 1,6 kW. Power can be saved in another way as well: the switch enables Airbus DS radios to enter a special Energy Economy mode that prolongs battery life.

Switches handle every call and every message in the network. It makes sense to opt for best performance.

DXT3 provides uninterrupted operation

Technical specifications

- Carriers: 320
- Base stations: 128
- Subscribers: 100,000; 150,000 when HLR only
- Dispatchers and voice clients (at the same time as max TBSs): 256
- Speech channels (connections to other DXT3s):
 - 960 8 kbit/s speech channels per DXT3
 - 90 (512Kbit/s) MTP signaling links
- Connections to R2 / conventional PMR systems (G4WIF): 240 interfaces
- ISDN PRA (30B+D): 32 (960 B-channels)
- Recording interface: 480
- Weight: 375-450kg
- Height x Width x Depth: 200cm x 120cm x 60cm
- Power consumption (average): <1.6kW max 2,3kW (Fully populated)
- Power supply: - 40 to - 72V
- BHCA: 435,000
- Can manage both E1 and IP connections at the same time

Characteristics

- Fast call set up time, < 0.35s
- Communications covering the entire network – seamlessly
- Call priorities help ensure critical communication in all circumstances
- Authentication of users
- Rapid and secure data services (SDS and IP packet data)
- Remote network management
- Encrypted communication
- Versatile numbering schemes for different types of operations
- Charging services
- Statistics
- Easy and low cost maintenance
- New functionality can be added without hardware upgrades
- Better than 2n redundancy
- Fully redundant mission-critical elements

Environmental conditions

- ETS 300 019-1-0: Classification of environmental conditions; introduction
- ETS 300 019-1-1: Classification of environmental conditions; Storage. Class 1.2; Weather protected, not temperature controlled storage locations, except relative humidity, which shall be in the range 10...85% and the mechanical conditions which correspond with Class 1.3E. The switch should be stored in its original package
- ETS 300 019-1-2: Classification of environmental conditions; Transportation. Class 2.3; Public transportation, except temperature range, which is extended down to -50° C
- ETS 300 019-1-3: Classification of environmental conditions; Stationary use at weather protected locations. Class 3.1E. Temperature- controlled locations, except the mechanical conditions for vibrations and shock resistance which correspond with Class 3.2. No start up below 0° C temperature is allowed
- Compliant with the European EMC Directive 89/336/EEC and the standard EN 300 386 regarding electromagnetic environment.

Temperature limits

- Operating: - 5° C... + 45° C (No start up below 0° C, recommended temperature + 25° C)
- Storage: - 25° C... + 55° C
- Transport: - 50° C... + 70° C

Special capabilities

- Telecommunications-grade element, designed for mission-critical use
- Supports radios' Energy Economy mode
- Superior performance in
 - emergency calls
 - scanning
 - managing talk groups
 - managing group memberships
- Implements unrivalled privacy

200 cm



120 cm

For more information please contact

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