



Unique single unit configuration ideal for small, local and rural TETRA applications

Single carrier system based on IP connectivity including Voice over IP

Application Programming Interface with easy access to TETRA functionality and application development

Bringing the world of TETRA expertise into your business

TetraFlex®

Micro System

Damm Cellular Systems A/S launches a completely new single carrier TETRA system – TetraFlex®, which particularly appeals to small, local or rural PMR installations with individual TETRA needs.

TetraFlex® Micro System uses the new one carrier base station BS421 from DAMM and offers the basic TETRA facilities and use of pure IP technology. Full IP connectivity and the use of Voice over IP (VoIP) are some of the characteristics of the TetraFlex® system.

An Application Programming Interface (API) further ensures that the application supplier easily becomes access to the TETRA facilities without having to work up a profound knowledge to the complicated TETRA protocols.

TetraFlex® is for single-site applications and is expandable to dual carrier configuration by connecting two base stations BS421. The system is delivered for the global standard TETRA frequency bands and is optionally supplied in other frequency bands as well.



New tower mounted TETRA system for small, local and rural PMR applications brings the world of TETRA expertise into your business requiring only a minimum of investments and resources.





Radio System Infrastructure

Small, easy and ready for operation under harsh climatic environmental conditions are some of the key words which characterize TetraFlex[®]. The base station BS421 which forms part of TetraFlex[®] is delivered in an outdoor IP65 specified cabinet and only needs a 48V DC power supply cable and an IP connection to be ready for full TETRA operation.

The base station with its built-in duplex filter, further offers employment of dual receiver diversity and comprises absolute top quality in a spectacular compressed design. With its modest weight and dimensions the system is specially developed for tower mounting and is delivered inclusive tower fittings, ready to be installed.

The TetraFlex[®] Micro Systems is mounted close to the antenna installation. Coaxial cable attenuation is thereby diminished and traditional coaxial cabling involving expensive low-loss cables can be avoided.

Dispatcher and Gateway

The TetraFlex[®] IP technology turns the peripheral connectivity an easy task to perform. The system is delivered with dispatcher connectivity and gateway connectivity for e.g. a SDS center or PBX. This makes development and launch of advanced TetraFlex[®] applications easy and manageable for suppliers of applications in individual lines of business.

Highlights

- Single carrier system
- Lite configuration
- Tower mounted outdoor device
- Developed for single site operation
- Dual carrier full redundancy configuration
- 10/100 Mbit/s IP connectivity including Voice over IP

- Simple, easy and low cost installation
- Gateway and dispatcher connectivity
- Application Programming Interface
- Cost effective configuration / minimized investments

Technical Information

- 10 W TX antenna power (typ.)
- Power supply 48V DC
- Temperature range: -40 °C to +55 °C
- Protection category: IP65
- Integrated duplex filter
- Full RX/TX operation on one antenna
- Dual receiver diversity on two antennas
- Dual carrier configuration and dual receiver diversity on two antennas
- GPS receiver synchronization

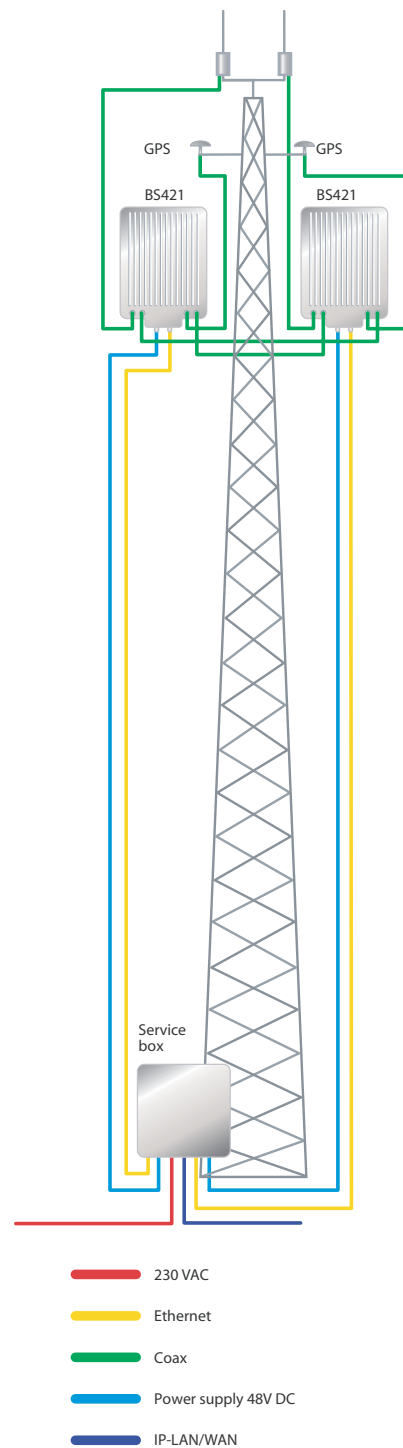
Frequency Range

- 300 MHz band
 - RX: 300-310 TX: 336-346
 - RX: 350-360 TX: 360-370
 - RX: 380-390 TX: 390-400
- 400 MHz band
 - RX: 410-420 TX: 420-430
 - RX: 450-460 TX: 460-470
- 800 MHz band
 - RX: 805-825 TX: 850-870
- Other frequencies on demand

TETRA Facilities

- Individual Call
- Emergency Call
- Group Call
- Emergency Group Call
- Access Priority
- SDS
- PBX Connectivity
- Ambient Listening
- Packet Data
- Authentication
 - DCK
 - SCK
- End to End Encryption

TetraFlex[®] Micro System



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