Rapid Deployable TetraFlex® – RDT

DAMM's Rapid Deployable TetraFlex® (RDT) solution has been specially designed for first-responder emergency and security services. Housed in a tough wheeled suitcase for maximum mobility, RDT offers a fully functional high-powered TETRA communication system that can be instantly deployed in any situation.

Powerful TETRA communications on demand

DAMM's Rapid Deployable TetraFlex® (RDT) solution is a fully featured, preconfigured mobile TETRA system. Among its wide range of potential uses, RDT is particularly effective in emergency situations like road accidents, natural disasters or search and rescue operations in remote rural areas. RDT can be easily transported to where it's needed and made fully operational almost instantly – regardless of whether there is any existing network in the area.

Self-contained, robust and secure

The fully self-contained RDT system comes in its own rugged case for easy and secure transportation, and can be deployed under even the most extreme environmental conditions. For optimal mobility, the suitcase is mounted on wheels and equipped with a telescopic handle. RDT enables first-responder emergency or security services to instantly set up a robust and fully configured communications system on site, which can then serve as a reliable temporary command centre for radio users in the field. RDT also supports important security applications, such as temporary deployment during VIP visits or special conferences. The system has been designed to meet the very highest security, safety and reliability requirements, especially in situations where people's lives and safety depend upon reliable communications.

High-power performance with low power consumption

RDT comes with its own integrated power supply. Thanks to the system's very low power consumption, it is the ideal solution for applications without access to AC power. In addition to its internal battery, which offers independent emergency power for more than two hours, RDT can be powered using the 24V/DC socket of any car, truck or other vehicle. For ultimate flexibility, it can also be connected to solar-powered devices or to a 230V/AC generator. All interface connections are easy accessible on the outside of the case, while the built-in fan keeps the system cool even with the case fully closed.

Modular flexibility for extended network coverage

As well as its extremely rapid deployment capabilities, RDT is a highly flexible modular system. If the area requiring network coverage is very large – such as following a natural disaster, for example – several cases can be linked together to create a multi-site configuration using secure IP protocols. Further, the subscriber capacity can easily be extended by connecting two RDT carriers. Thanks to DAMM's innovative new TetraFlex® Group Bridge solution, the system can also perform group calls to any other TETRA network or even to analogue networks, regardless of manufacturer.

Fully featured TETRA performance in a compact format

RDT comes with a full range of advanced software tools, including remote Network Management and Voice & Data Log System for recording, storing and replaying all calls and SDS messages. It can even be connected to an advanced Dispatcher solution with a GPS positioning system.

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Features

	Included	Optional *
Network Manager	✓	
Statistics	✓	
Voice and Data Log System		✓
Dispatcher Application		✓
Voice Gateway		✓
Packet Data Gateway		✓
TetraFlex® Group Bridge		✓
Multi node Functionality		✓

*) Dongle controlled functions

Base Station Transceiver BS421
Frequency Bands

	300 MHz Band			400 MHz Band		800 MHz Band
RX	300-310 MHz	350-360 MHz	380-390 MHz	410-420 MHz	450-460 MHz	805-825 MHz
TX	336-346 MHz	360-370 MHz	390-400 MHz	420-430 MHz	460-470 MHz	850-870 MHz
BW	10 MHz	5 MHz	5 MHz	5 MHz	5 MHz	14 MHz

Transmitter and Receiver
- TX power at antenna connector:
  0.5 W to 10 W TETRA remotely adjustable
- RX sensitivity with diversity, static: -121dBm
- RX sensitivity w/o diversity, static: -118dBm
- RX sensitivity with diversity, dynamic: -118dBm
- RX sensitivity w/o diversity, dynamic: -112dBm

- Receiver Diversity: Dual as standard
- Built-in duplexer:
  Combines TX and RX to one antenna
- Synchronization: Internal or external
  with GPS

Antenna Connections
- Antenna set-up:
  One antenna min. two antennas
  for diversity
- GPS antenna:
  One GPS antenna.
  Active (+5 VDC) or passive.

Specification

Parameter	Value
Power Supply:	
Supply voltage	100-240V AC or 24V DC
Power consumption	107W full power
Internal battery	4 x 12V 7Ah
Internal connectors:	
Connector for external monitor	15 pol. VGA
Connector for mouse/keyboard/dongle	USB
Internal LAN test connector	RJ45, Ethernet 10/100Mbit/s
External connectors:	
230 V AC mains connector	Amphenol 4 pol MIL-C-26482 circular male
24V DC connector	Jaeger 4 pol male 5337 55006
LAN / WAN connector	RJ45 Cat 5e Conec Industrial Ethernet (IP67)
RX connectors RX A and RX B	N Female
A-Out connector	N Female
GPS antenna connector	N Female
Physical:	
Dimensions (HxWxD)	62.5 x 50 x 36.6 cm
Weight	46,6 kg
Operating temperature	-20 ºC to +40 ºC
Storage Temperature	-40 ºC to +85 ºC

Specifications subject to change without notice