Simplifying advanced communications

DAMM
– Stay in touch

First class TETRA technology

For more than 25 years, DAMM has been a leader in professional radio communications. Through superior engineering and a constant focus on reducing complexity, we have taken the lead within TETRA technology.

TetraFlex® is flexible to use in any combination of both indoor and outdoor units in a single or multi-site configuration.

Focused exclusively on serving the Private Mobile Radio market, DAMM is dedicated to making TETRA communication easy to deploy for industrial, commercial and public safety customers.

By focusing on customer needs and usability, we manufacture the most scalable, flexible and user-friendly TETRA infrastructure on the market. Throughout our development process we have our customers' communication project phases in mind, thereby providing a very low total cost of ownership solution.

DAMM is a dynamic and innovative company at the forefront of technological innovation. We are constantly looking for new improvements and refinements, and we play an active role in defining how TETRA advances.

With a long tradition as a direct supplier to world-class OEM partners, certified system partners and application developers, our TetraFlex® systems have consistently demonstrated excellent functionality and cost-effectiveness. To date, we have supplied more than 20,000 radio channels to radio networks around the world, and the number is constantly increasing.

When choosing a DAMM solution, you can rest assured that you will enjoy the full benefits of leading edge TETRA technology and state-of-the-art features. Whatever your operational requirements, from real time logistical support for manufacturing and field service to transportation or public safety, DAMM solutions help you optimise operations.

TetraFlex®: tailored for the future
Designed for all users, from small and big size industries to large scale mission critical applications, the DAMM TetraFlex® system provides fast and resilient feature-rich digital radio communications. The system comes complete with indoor or outdoor base stations as well as integrated software functions and can easily expand as your requirements change.
From planning your network to installation and operation, TetraFlex® offers you the most user-friendly, flexible and cost-effective TETRA infrastructure on the market.

Why TETRA?
Terrestrial Trunked Radio (TETRA) has been developed by industry experts alongside the European Telecommunications Standards Institute (ETSI) and has emerged as the unchallenged standard for the most demanding and professional users of radio communications worldwide.
TETRA technology brings new outstanding features to mobile communications, by combining the features of mobile cellular phones with fast data communications and the workgroup capabilities of PMR. All communications over TETRA are reassuringly private, secure and robust. The fully digital technology provides consistent and low noise voice quality. Further the TETRA technology is inherently efficient in the way it uses the frequency spectrum.
As a global open standard,TETRA allows a mix of different manufacturers' TETRA equipment on the same system.
Today, TETRA has been adopted in over 70 countries and is supported by a large number of radio communication suppliers worldwide.

DAMM is a worldwide provider to the PMR market
We are the preferred supplier of TETRA infrastructure to industrial, commercial and public safety customers including military organisations, golf courses, sport stadiums, cruise liners, manufacturing sites, airports and airfields, resorts, utility, transportation, fleet management, seaports, civil protection, government systems, police, fire brigades and many more.

Easy setup
Whether you need a single-site or multi-site system, TetraFlex® is the smart choice. Regardless of your requirements, TetraFlex® offers plug-and-play simplicity for easy set-up and fast deployment. Even when changing from analogue to digital technology, our feature-rich and cost-effective single-site solution makes the shift easy.

Wide range of embedded software tools
The unique graphical TetraFlex® Network Management system gives you easy access to configuration and surveillance of your entire TetraFlex® network and subscribers and with support of multiple, independent organisations. With all sites remotely controlled from this function, you avoid any extra investment in third party management systems.
The embedded TetraFlex® Dispatcher provides easy communication with other TETRA subscribers, allowing your controller to effectively manage, supervise and control your organization's radio communications.

The TetraFlex® Log Server enables you to log activities or system parameters from across your entire network, i.e. voice, positions and SDS, or keep statistics on operational performance.

Scalable to fit your needs

When planning your network, you never need to worry about future capacity and coverage. TetraFlex® can be scaled at any time, from a small and intelligent single site solution with local coverage to a large-scale multi site system. Or you can upgrade your system to provide even more capacity and meet increased communication demands.

TetraFlex® Dispatcher

With graphical user interface. Provides a range of features, such as display of Phonebook, DGNA, individual and group calls, monitoring of all active calls, send and receive SDS etc.

TetraFlex® Application Programming Interface

Allows software development and connectivity for third party applications. E.g. alarms, dispatching and AVL solutions etc.

TetraFlex® Intelligent Distributed Architecture

Enables simple self-configuring site expansion and automatically re-establishment after network interruption.

IP Backbone

TetraFlex® LOG Server Voice & Data

Allows full voice recording and data logging and keeps statistics on operational performance.

TetraFlex® Network configuration

Makes is possible to configure the TetraFlex® system in any combination of single- or multi-site systems and a combination of indoor- and outdoor base stations.

Voice Gateway

PSTN

TetraFlex® Packet Data Gateway

Supports IP communication between TETRA mobiles and attached units, such as Laptops, Application Servers, Workstations, FTP server, WAP servers etc. anywhere in the IP Network.

TetraFlex® Outdoor Base Station1-4 carrier

IP65 protected and designed to be mounted in the top of the mast, close to the antenna, eliminating feeder loss and lowering cost of installation. It's small size and weight also makes it ideal for deployable solutions in cars, trucks etc.

TetraFlex® Voice Gateway

Performs connectivity to voice communication via external PBX/Gatekeeper using SIP protocol.

TetraFlex® Network Management System

Gives easy access to configuration and surveillance of network and subscribers.
It comes with a Google Map where the alarm status of all site positions are available.

TetraFlex® Indoor Base Station 1-8 carrier

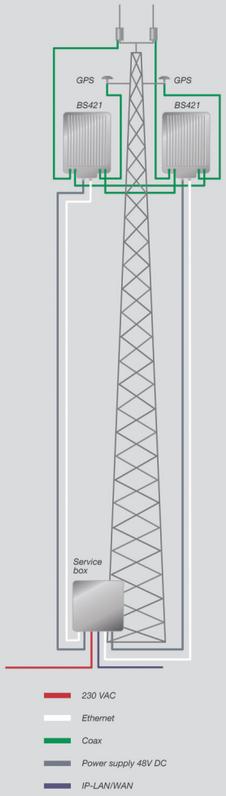
A high capacity solution which can be delivered with up to 8 carriers, the equivalent of 32 time slots.

100% IP-based
The 100% IP-based technology gives you full architectural network flexibility. It connects all network components, including base stations, dispatchers, network management facilities and external gateways in one state-of-the-art infrastructure. No central switch is needed. And together with the intelligent TetraFlex® software, it enables simple and smooth self–configuring site expansion – even while TetraFlex® is in operation.

Application Programming Interface
The TetraFlex® Windows-based API gives you easy access to application development and connectivity for third party developments. For example, alarm dispatcher, AVL solutions, etc.

Choose your favourite terminal
TetraFlex® has been developed for compatibility with all terminal brands. DAMM provides a constantly updated list of compatibility tests for the most reputable terminals.

TetraFlex® is the optimised outdoor solution



TetraFlex® complies with ETSI standards
TetraFlex® offers the broad range of features defined by the ETSI standard. Some of the key services differentiating TETRA from other wireless technologies include individual simplex and duplex calls, group calls, pre-emptive emergency and priority calls, dynamic group number assignment, call authentication, late entry, voice encryption, packet data services.

Simplicity is the key

Switch on the power, enter your basic IP configuration, and your TetraFlex® system is ready for operation. Developed with flexibility and user-friendliness at the core, TetraFlex® delivers substantial savings on training and project costs.

Easy to install
Due to its small size and weight, the TetraFlex® outdoor base station can be installed directly on antenna masts, buildings and towers, keeping installation costs to a minimum. And with IP65 protection, you can even site it in very harsh environments. Plug-and-play simplicity also leaves you with the ideal solution for rapid, vehicle-based deployment.

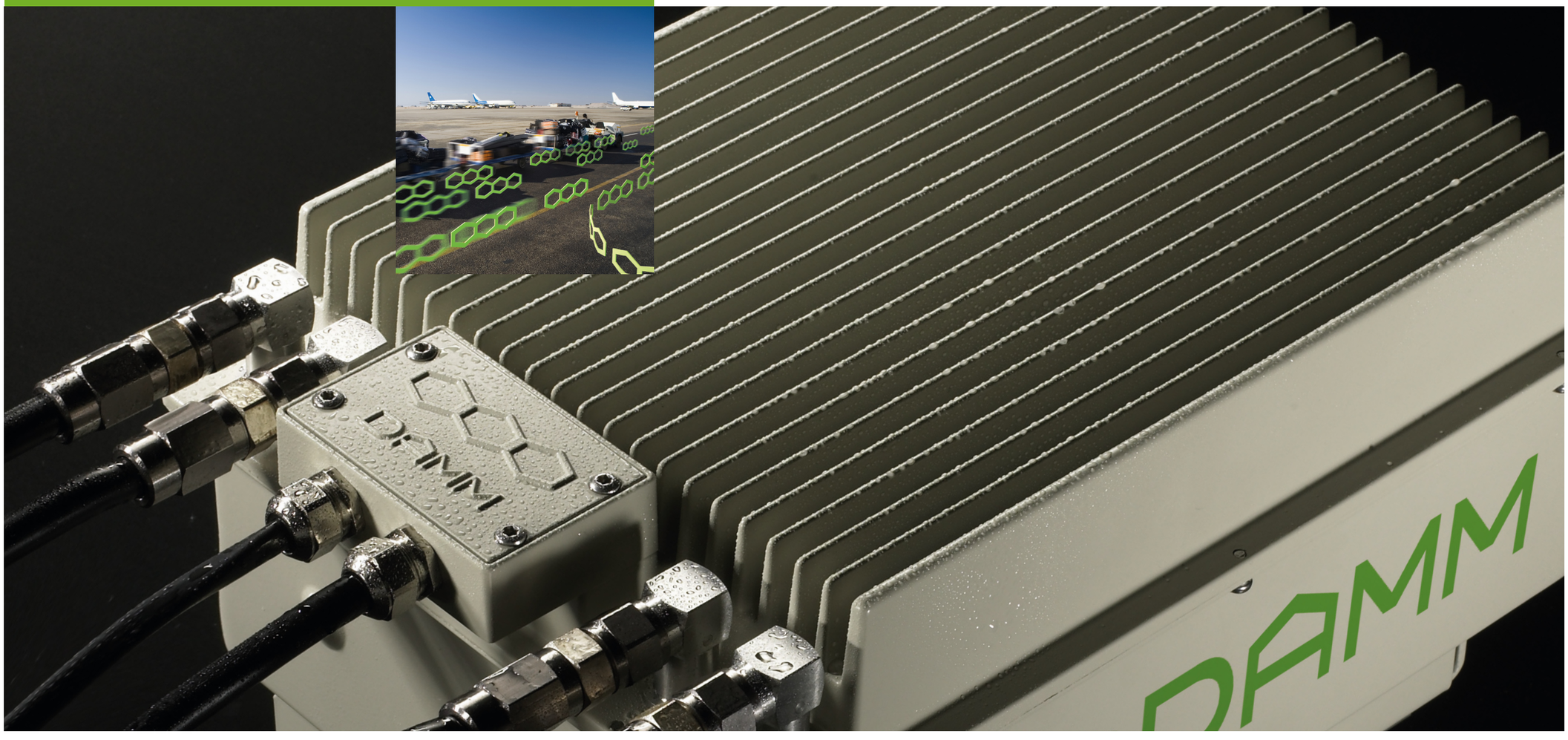
Alternatively, TetraFlex® is available in high-capacity indoor base stations, scalable from 1 to 8 carriers, providing the equivalent of up to 32 time slots.

Easy to configure, operate and monitor
The unique user-friendly and intuitive graphical interface of the TetraFlex® software allows you to get your system up and running quickly.
Using IP technology and DAMM maintenance facilities, you can monitor your entire network, manage subscribers, operate sites and much more; regardless of where you are in the world.

Secure and failure-tolerant communication on all levels
By choosing a redundant system, system failures will automatically activate the redundant system or redundant carriers.

TetraFlex® works by using an intelligent distributed architecture, meaning that system information is always replicated to all sites in the network. In this way, local call and data traffic will always continue uninterrupted, even if one or more sites lose connection with the rest of the network.

Unlimited third party application integration
TetraFlex® is supplied with an Application Programming Interface (API), used for straightforward development and integration of customer-designed applications.



Stay in touch

At DAMM, you will find straightforward business processes and lean sales and support organisations that make it easy for you to do business with us anywhere in the world.

Ever since the release of TetraFlex ® DAMM has built up an extensive network of certified system and application partners.

DAMM only chooses highly experienced partners with substantial knowledge within the fields of radio technology and TETRA to market and sell its products. All partners have service departments for installation, maintenance and service to end-users.

Today, TetraFlex ® sales, service and support are available through our global network of partners. To find a certified system partner close to you, please visit: www.damm.dk

Damm Cellular Systems A/S
Møllegade 68
6400 Sønderborg
Denmark

www.damm.dk

NEVADA®
www.nevada.com.tr

Produced by Danfoss A/S © (GS – Advertising) May 2009