COMPACT TETRA
MOTOROLA COMMUNICATIONS SOLUTIONS
FLEXIBLE TETRA COMMUNICATIONS SOLUTIONS

Compact TETRA provides small to medium operations with a cost effective, technologically advanced, reliable digital communications solution. It’s easy to use, install and maintain whether your business has a few hundred users or as many as 10,000.

TETRA digital technology combines two-way radio, mobile telephony, messaging and data in one device and enables organisations to simplify and improve the performance of their communication platforms.

Motorola is the world’s leading provider of TETRA products and solutions to a multitude of industries and market sectors, including public safety, security operations, construction and transportation. TETRA is a proven technology that has been put to the test by these customers’ sophisticated and demanding requirements. You can now benefit from Motorola’s extensive experience in TETRA.

Compact TETRA is a unique communications solution consisting of a resilient infrastructure, Motorola’s high quality radios and a variety of approved software applications.

WHY CHOOSE A DIGITAL TETRA BUSINESS SOLUTION?

Analogue frequencies are becoming increasingly crowded. Spectrum availability, privacy and consistent voice quality within the outskirts of a coverage area can be problematic.

Digital radio technology, with its advanced voice compression techniques, greatly increases the efficient use of spectrum, providing capacity for more calls and freeing up channels for other use, such as data. Security is vastly improved and voice quality remains constant wherever you are in the coverage area. Furthermore digital technology allows you to expand your system as your communication needs develop.

TETRA is an open, digital trunked, radio standard defined by the European Telecommunications Standardisation Institute (ETSI) to meet the needs of the most demanding professional mobile radio users. It provides customers with a choice of competitively priced solutions from a broad variety of manufacturers and suppliers.
HOW CAN COMPACT TETRA MEET MY BUSINESS NEEDS?

RELIABLE AND RESILIENT
A Compact TETRA solution keeps you communicating at all times; redundant components (Base Station Controller, carriers and power supply) are integrated into the system to immediately take over in the unlikely event of a component failure.

The system’s reliability is further enhanced by Compact TETRA’s innovative distributed architecture, which enables switching intelligence to be shared across the system rather than concentrated at a central point. This provides an extra level of resilience within the network in case any untoward event occurs.

Each base station has two network connections which enable customers to choose from a flexible range of network designs (e.g. ring, daisy chain or star). These options can offer heightened availability so that in the unlikely event of one site failing, all the other sites will continue their operation unaffected. Or should one of the site links fail, the second network connection is seamlessly used instead, with minimal disruption.

TESTED TO EXTREMES
In your business you need absolute reliability. That means robust dependability, no matter what happens. All Motorola products are designed to offer a high level of durability and operational reliability. All are subjected to Motorola’s unique Accelerated Life Test which simulates five years of hard use in the field. The system is placed under stress and loaded to capacity to check that all functions operate when the system is pressured to its limits.

Compact TETRA is designed to withstand extremities of temperature. It will perform with predictable reliability, satisfying customers who need to communicate in testing and difficult climatic conditions.

“By 2004, it is predicted that 87% of companies will be operating digital communications solutions”.
(Source: IMS Report, July 2001)
INTEGRATING MY COMMUNICATIONS
With Compact TETRA businesses can benefit from one integrated communications platform for their entire workforce. This provides the ability to develop a large user community, all able to communicate with each other. It is scaleable from a one carrier site where several hundred radios can be deployed up to an eight site system with up to 10,000 radios. This single system saves on other communication charges such as cellular phone bills and paging services.

Comprehensive voice and data features enable users to make instant private and group calls then to use the same device to access information, send a message or make a mobile phone call.

COMPACT, SCALEABLE AND FLEXIBLE
Covering local to regional areas, there is a solution ready for you from either our single-site or multi-site options. In simple low cost steps your company can own the radio system it needs. As your business changes creating a need for new users, functionality or sites, you can simply add further modules to meet new demands. Additional functionality can be added when available through software and hardware upgrades.

PACKET DATA CAPABILITIES
Motorola’s Compact TETRA provides a wide range of data transmission capabilities, from simple text messages to advanced applications based on packet data techniques to transfer large amounts of information quickly and easily using an industry standard Internet Protocol (IP) which can increase the cost benefits for your organisation.
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SPECIALIST APPLICATIONS
Specialist software applications and peripheral equipment operating on your Compact TETRA system are the keys to providing an operational solution for your business. Imagine a communications system that shows you the location of your vehicles on an electronic map; automatically monitors the temperature of refrigerated compartments in the vehicles, will alert you to any potential problem with the cooling unit and the location of the nearest replacement delivery vehicle. Such data will clearly result in real operational benefits.

Motorola’s Applications Partner programme accredits industry-leading companies of specialised software and hardware and then tests and certifies the compatibility of specific products with Motorola’s TETRA infrastructure and radios. This process of accreditation and certification means that Compact TETRA users have the confidence that their solution will perform.

Compact TETRA supports similar data interfaces as on the larger Motorola nationwide systems. This means that available from launch there is access to a wide range of applications. For example, applications specialising in equipment which can seamlessly manage voice, telephony, video and data in a control room, Automatic Vehicle Location (AVL) applications which can track and manage fleets of vehicles over a wide area whilst stand-alone mobile data solutions offer general messaging, remote dispatching and information enquiries.

Compact TETRA is a unique communications solution consisting of a resilient infrastructure, Motorola’s high quality handsets and a variety of approved software applications that all link together to provide an integrated information system.
PORTFOLIO OF AWARD WINNING HANDSETS
Motorola is leading the way in TETRA innovation. Our extensive research and development programme is driving the development of next generation TETRA products enabling business solutions that extend the life of your investment in technology.

Our global research into the diverse needs of TETRA customers has enabled us to manufacture a range of class-leading handset products that offer:

• Uncompromising reliability and durability
• Best-in-class audio performance
• Extensive features with unrivalled functionality
• Upgradeable software

(Please see Motorola’s handset brochures for information regarding handsets*)

BASE STATIONS
All configurations are compact, low power consuming units available in 2, 4 or 8 carrier set-ups. Each site is powered from a standard power source and supports optional battery backup ensuring continuity of service.

*Handsets can only support features available on Compact TETRA
EASY TO INSTALL, CONFIGURE AND MAINTAIN

Motorola’s Compact TETRA development has focused on creating business solutions that are easy to install, configure, maintain, manage and upgrade, keeping management and running costs low. The front access base station makes maintenance more straightforward and the system can be managed remotely from any dispatcher station to further cut costs.

Local support will also be available from our list of highly experienced accredited system partners who will be ready to help with their expert knowledge, support and maintenance. Back up can also be provided by Motorola’s service organisation.

BENEFITS OF COMPACT TETRA:

- A complete solution uniquely tailored to your business needs meaning you only pay for what you need
- Superb resilience with built in back up features to ensure product reliability should the unexpected happen
- High performance with proven Motorola quality, tested to the highest standards
- Small, neat and compact design with scaleable solutions (number of sites etc.) to fit your requirements
- Packet data capability allows AVL (Automatic Vehicle Location), database enquiries and much more, putting information at your fingertips
- Accredited application partners work closely with Motorola, providing your business with best class operational solutions
- High quality Motorola handset portfolio, providing many additional useful features for your business

In your business you need absolute reliability. That means robust dependability especially when your communications are critical to your business success.

A Motorola Compact TETRA solution offers you the advances of the digital revolution with the confidence and reassurance of Motorola expertise and quality.