

PowerTrunk²⁵



P25

Powerful • Secure • Reliable • Upgradable

LMR

Digital P25 Infrastructure System

For Mission-Critical Voice and Data Communications

Conventional and trunked modes in VHF, UHF and 700/800 MHz



Mission-Critical Ready For today and for the future

Powerful, secure, reliable and upgradable, the **PowerTrunk25™** infrastructure system is the logical choice for mission-critical voice and data communications. It's ready to install today; easy to scale and upgrade tomorrow. This next-generation trunked or conventional P25 LMR system uses the same architecture as our field-proven NEBULA™ TETRA product line.

You can count on our 35 years of experience designing, manufacturing, implementing and supporting digital and analog LMR for 300 networks in 50 countries.

PowerTrunk²⁵

A powerful end-to-end IP design

- End-to-end IP allows use of standard networking equipment, which reduces risk of obsolescence and lowers switching equipment costs.
- Our patented method optimizes voice packets inside the IP network, reducing IP delays and lowering bandwidth requirements.
- VoIP external connectivity facilitates integration with Computer Aided Dispatch (CAD) and voice-logging applications.
- All system components have an IP interface: modules can be freely distributed throughout the network to allow any network topology.
- Build a complete fault-tolerant system as all modules can be duplicated for redundancy.

Unmatched interoperability, flexibility and scalability

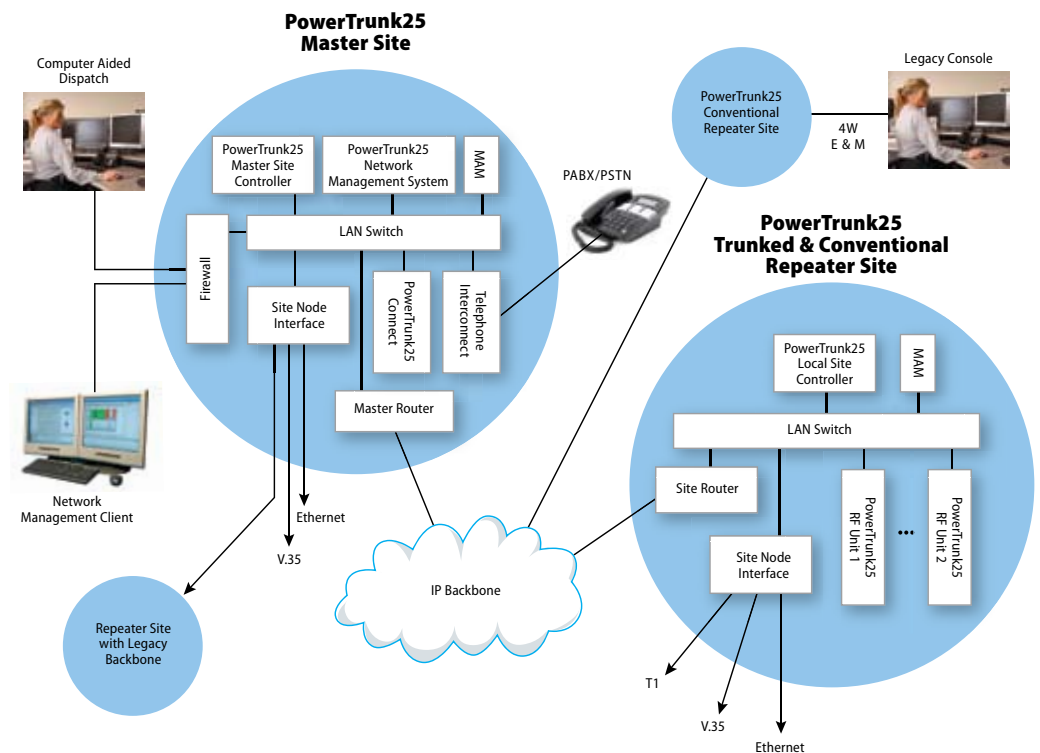
- Integrated interfaces ensure interoperability with other LMR networks and legacy systems.
- P25 CAI compliant, the system is interoperable with any P25-compliant subscriber unit.
- ISSI implementation requires no additional hardware for conversion or transcoding of voice packets.
- Integrated interfaces to common backhauls facilitate deployment.
- Modular architecture scales from single site to nationwide – adding new channels, new sites or new agencies is intuitive and cost effective.
- The fully integrated CAD is designed to handle large coordination centers.

Software-only upgrade to P25 Phase 2

- Repeaters and controllers are software-only upgradeable to P25 Phase 2 TDMA structure.
- Main controllers include a powerful real-time operating system with increased processing capability, enabling the system to evolve with future P25 functionalities.

Highest level of network security and management

- FCAPS ISO model network management allows seamless multi-agency network sharing with independent management of subscribers.
- Real-time alarm management provides easy and intuitive maintenance.
- SNMP support allows interfacing with higher-level network management systems.
- The system exceeds standard security requirements: FIPS Level 3-oriented tamper-proof E2EE module, support for up to eight algorithms, comprehensive Key Management Center, OTAR support, secure encrypted voice-to-dispatch and telephone calls.





Complete P25 LMR Infrastructure System

PowerTrunk25 RF Unit

The Base Station/Repeater is a modular unit that is easy to deploy and maintain. Each plug-and-play module contains different functional blocks and provides specific alarms to minimize in-field repair time. Designed to be future proof — the PowerTrunk25 RF Unit has all the necessary hardware to manage a TDMA structure up to four time-slots, requiring only a software upgrade to P25 Phase 2. The unit can function in P25 trunked, conventional, analog or mixed modes.



PowerTrunk25 MSC

The Master Site Controller provides the intelligence and processing capability for the trunking system. It manages call processing, users' configurations and real-time locations inside the network. These are all features that ensure fast call setup, seamless roaming and automatic switchover to a redundant unit in case of failure. The hardware is an industrial-grade, high-performance computer using a real-time operating system.



PowerTrunk25 NMS

The Network Management System is based on a client/server networking architecture. Data collection and management are distributed across multiple clients' workstations through standard IP protocols. Designed according to the FCAPS model, PowerTrunk25 NMS can be configured for different access privileges to permit separate technical and operational management. The NMS allows multiple agencies to share the network, yet isolates each agency's subscriber management.



PowerTrunk25 LSC

The Local Site Controller is the core of the PowerTrunk25 repeater sites. It maintains the link and communication with the Master Site Controller and manages the repeater units. If the link with the Master Site is lost, the LSC provides a powerful fallback operation by maintaining all trunking functionality as a single site. For easier management, the LSC is connected to the site LAN and controls all site modules.



PowerTrunk25 Connect

The Connect Module provides an interface for interoperability with other systems such as mutual-aid channels, analog systems or legacy trunking systems. It is also the VoIP gateway for the CAD system: one module supports up to 10 dispatch consoles and 20 radio interfaces. Additional modules can be interconnected to increase capacity.



About PowerTrunk

PowerTrunk Inc. is the subsidiary of Teltronic® S.A.U. responsible for business development, distribution and customer support for Teltronic land mobile radio projects in North America.

With over 35 years' experience designing, manufacturing, implementing and supporting digital (TETRA) and analog land mobile radio turnkey projects, Teltronic S.A.U. has more than 300 systems installed in 50 countries.

Headquartered in Spain, Teltronic S.A.U. has operations throughout Europe, Asia, the Pacific Rim, the Middle East, Latin America and the United States. We offer a complete product suite which includes infrastructure, mobiles, hand portables and dispatching consoles. Teltronic's LMR solutions are widely deployed in the public safety, oil and gas, transportation and utilities industries.

PowerTrunk25 Infrastructure System Services

P25 Services

- Broadcast voice call
- Unaddressed voice call
- Group voice call
- Individual voice call
- Pre-programmed data messages
- Circuit switched data access
- Packet switched data access

P25 Supplementary Services

- Encryption
- Priority call
- Pre-emptive priority call
- Call interrupt
- Telephone interconnect
- Discreet listening
- Silent emergency
- Radio unit monitoring
- Talking party identification
- Call alerting

P25 Services to Subscriber

- Intra-system roaming
- Inter-system roaming
- Call restriction
- Affiliation
- Call routing
- Encryption update

Powerful • Secure • Reliable • Upgradable

The logo for PowerTrunk, featuring the word "PowerTrunk" in a bold, italicized, sans-serif font. The text is white with a blue outline and is set against a blue oval background that has a slight gradient and a shadow effect.

590 Madison Ave, 21st Floor
New York, NY 10022
212.222.4971
www.powertrunk.com

A large, stylized graphic of the letters "LMR" in a bold, outlined font. The letters are white with a blue outline and are set against a red background. The graphic is tilted slightly to the right.