



TLC Solutions Inc.
USER FIRST TECHNOLOGY

TLC SOLUTIONS, INC.
PRODUCTS & SERVICES

WIRELESS NETWORKS
SYSTEMS INTEGRATION
PRODUCT DEVELOPMENT
CUSTOM FABRICATION

OTHER PRODUCTS
AVAILABLE

- PICO-CDMA NETWORK
- PICO-EVDO NETWORK
- PICO -UMTS NETWORK
- MULTI-STANDARD MOBILE SWITCHING CENTER (MSC)
- MINI-GSM BASE STATION SUBSYSTEM
- MACRO-GSM BASE STATION SUBSYSTEM
- MACRO-CDMA BASE STATION SUBSYSTEM
- MACRO-EVDO BASE STATION SUBSYSTEM
- MACRO-UMTS BASE STATION SUBSYSTEM
- CHATTERBOX VOICE & SMS TRAFFIC GENERATOR

PICO-GSM NETWORK



Single-TRX Pico-GSM Network

- Flexible, private GSM Network supporting voice, SMS, and data services
- Support for multiple backhaul options for connectivity into DoD or commercial networks
- Supports the use of any GSM mobile handset and provides all the major functions of a commercial network
- Multiple options available for supporting up to Type-1 secure communications
- Can be customized in a variety of form factors from rack-mounted to a rapidly deployable suitcase system

TLC Solutions' Pico-GSM Network is the smallest, fully-specified GSM network solution on the market today. This system can provide every major available feature in today's commercial GSM networks including voice calling, Short Message Service (SMS), GPRS/EDGE data, handovers and mobile authentication.

The Pico-GSM Network is available in a number of different form factors and with a variety of options including support for multi-media, email and chat. It can be packaged in a carrying case capable of fitting in an overhead bin of most commercial aircraft making it easily deployable and operational within minutes.

Its design is ideal for supporting tactical communications, and public safety, homeland security, and other defense applications.

The Pico-GSM Network can operate in a variety of modes, including as a single base station subsystem or as a larger, networked

base station subsystem with multiple nodes. Optionally, each node in a multiple node system can be configured to operate independently should the IP backhaul lose connectivity.

All communications between the components of the Pico-GSM Network are accomplished over IP connectivity, resulting in flexible network deployments that can be easily integrated into existing network infrastructure.

The Pico-GSM Network is available in 850 MHz, 900 MHz, 1800 MHz and 1900 MHz frequency bands and supports both GPRS and EDGE data connectivity.

The Pico-GSM Network is also part of the Pre-positioned Expeditionary Assistance Kits (PEAK) Joint Capability Technology Demonstration (JCTD) which provides rapidly-deployable, user-friendly, leave-behind services to support global disasters/humanitarian efforts .

ABOUT TLC SOLUTIONS, INC.

TLC Solutions is the leader in providing secure wireless network solutions designed specifically for portability, ease-of-use and tactical communications applications across a variety of standards including 2G, 3G and ultimately 4G technologies.

As a small, woman-owned business with expertise in systems integration, RF and network engineering, hardware and software development, and custom fabrication, TLC has been producing cutting-edge communications solutions and providing outstanding support to its Government and DoD customers since its inception in 2003.

For more information on any of our products or services please visit us on the Web at:

www.toplevelcom.com

FEATURES AND BENEFITS



Multi-TRX Pico-GSM Network

TLC Solutions' Pico-GSM Network is the most compact, portable GSM Network available in the market and is widely deployed by a number of DoD and other Government organizations.

The Pico-GSM Network fully supports all of the everyday functions expected from a cellular network in addition to providing secure communications capabilities.

Multiple systems can be networked together through satellite, WiMAX or other backhaul methods to increase the range of network coverage.

Based on the customer's operational requirements, the Pico-GSM Network can be prewired and preconfigured to be set-up and operational within minutes of antenna deployment and the flip of the power switch.

Backed by TLC Solutions' world-class integration and support services, the Pico-GSM Network is self-contained and can be ruggedized to survive some of the harshest weather conditions. Integrated into a portable suitcase with internal cooling fans and battery back-up, it can provide reliable voice and data communications services in even the most remote locations.

SYSTEM SPECIFICATIONS

Features :

- 1000+ Subscriber HLR
- 1000+ Subscriber VLR
- Integrated SMSC
- Integrated GSN (Optional)
- NSA Type 1 Secure phone support
- Integrated AUC
- Call Holding, Call Waiting, Caller ID
- MMS Support (Optional)
- Email Support (Optional)
- Chat Support (Optional)
- Up to 10W Output Power

Specifications (Suitcase):

Input Power

- 110-240 VAC 50/60 Hz or 9-32 VDC
- 105W Max Power Consumption

Temperature

- Operating -5° C to +45° C
- Storage -40° C to +85° C

Humidity

- Operating 0% to 95% Non-condensing

Dimensions:

- 16.75"Lx11.18"Wx8.68"H (in carrying case)

Weight

- 34 lbs.

Network Interface Options

- Session Initiated Protocol (SIP)
- E-1/T1 ISDN PRI (Optional)
- GSM Map (Optional)



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