



TLC Solutions Inc.
USER FIRST TECHNOLOGY

TLC SOLUTIONS, INC.
PRODUCTS & SERVICES

WIRELESS NETWORKS
SYSTEMS INTEGRATION
PRODUCT DEVELOPMENT
CUSTOM FABRICATION

OTHER PRODUCTS
AVAILABLE

- PICO-GSM 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-CDMA NETWORK



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

TLC Solutions' Pico-CDMA Network is the smallest, fully-specified CDMA network solution on the market today. This system can provide every major available feature in today's commercial CDMA networks including voice calling, Short Message Service (SMS), 1xRTT data, handovers and mobile authentication.

The Pico-CDMA 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, public safety, homeland security, and other defense applications.

The Pico-CDMA Network can operate in a variety of modes, including as a stand-alone base station subsystem for mobile-to-mobile calling or as a networked base station subsystem connected to a Mobile Switching Center (MSC)/Home Location Register (HLR) over an IOS interface.

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

The Pico-CDMA Network is available in 450 Mhz, 850 MHz, and 1900 MHz frequency bands and supports 1xRTT data connectivity.

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



TLS Solutions' Pico-CDMA Network fully-supports all the everyday functions expected from a cellular network in addition to providing secure communications capabilities.

The Pico-CDMA Network eliminates the need for costly network elements such as the Radio Network Controller (RNC) and Transcoding and Rate Adaption Unit (TRAU) by integrating these functions into a single unit.

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-CDMA 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 services and support, the Pico-CDMA 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 communications services in even the most remote locations.

SYSTEM SPECIFICATIONS

Features :

- 64 Channel Elements
- 32 Mobile calls
- Expandable
- Short Message Service
- 1xRTT Data Support¹
- Auto-initialization
- MMS Support (Optional)
- Email Support (Optional)
- Chat Support (Optional)
- 50 mWatts to 4 Watts

Specifications:

Input Power

- 110-240 VAC 50/60 Hz
- 100W Typical Power Consumption

Temperature

- Operating 0° C to +50° C
- Storage -40° C to +85° C

Humidity

- Operating 0% to 95% Non-condensing

Dimensions

- 1.75" H x 15" W x 20" D

Network Interface Options

- Session Initiated Protocol (SIP)



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¹1xRTT Data Support Requires compatible PDSN and AAA server