TLC Solutions Inc.
USER FIRST TECHNOLOGY

MODULAR GSM NETWORK

Modular GSM Network
(Dual-TRX Chassis Configuration)

- 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
- Can be customized in a variety of form factors from rack-mounted to a rapidly deployable suitcase system

TLC Solutions' GSM Networks are the smallest, fully-specified GSM network solutions on the market today. They 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.

TLC GSM Networks are 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 remote, rural, tactical, public safety, and homeland security applications.

TLC GSM Networks 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 Modular GSM Network are accomplished over IP connectivity, resulting in flexible network deployments that can be easily integrated into existing network infrastructure.

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

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Social impact – promoting small cells for social/ economic/ environmental development

FEATURES AND BENEFITS

Modular GSM Network
(Single TRX Suitcase Configuration)

The Modular 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, microwave or other backhaul methods to increase the range of network coverage.

Based on the customer's operational requirements, the Modular GMS 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 Modular 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, it can provide reliable voice and data communications services in even the most remote locations.

SYSTEM SPECIFICATIONS

Core :
- 1000+ Subscriber HLR
- 1000+ Subscriber VLR
- Integrated SMSC
- Integrated GSN (Optional)
- Integrated AUC
- Call Holding, Call Waiting, Caller ID
- MMS Support (Optional)
- Email Support (Optional)
- Chat Support (Optional)

Specifications (Suitcase):
Input Power
- 110-240 VAC 50/60 Hz or 9-32 VDC
- 50W to 500W Max Power Consumption depending on configuration

Output Power:
- Up to 100W

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

Humidity
- Operating 0% to 95% Non-condensing

Capacity
- 14 channels (AMR) per TRX

Dimensions:
- 24.25"Lx19"Wx5.25"H (3RU Chassis configuration)

Weight
- 52 lbs. (3RU Chassis configuration)

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

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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, 4G, 5G, CDMA, and Radio technologies.

As a small 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

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