



**TLC Solutions Inc.**  
USER FIRST TECHNOLOGY

**TLC SOLUTIONS, INC.**  
**PRODUCTS & SERVICES**

WIRELESS NETWORKS

SYSTEMS INTEGRATION

PRODUCT DEVELOPMENT

CUSTOM FABRICATION

**OTHER PRODUCTS**  
**AVAILABLE**

- 5G NETWORKS
- LTE NETWORK
- GSM NETWORK
- UMTS NETWORK
- EVDO NETWORK
- CDMA NETWORK
- MULTI-STANDARD CORE NETWORK
- CHATTERBOX CELLULAR TRAFFIC GENERATORS



## UMTS (3G) NODEB

Field Deployable  
Suitcase Enclosure



TLC Solutions' UMTS NodeB is the smallest, fully-specified NodeB solution on the market today.

The TLC UMTS NodeB is available in a number of different form factors and with a variety of options.

It is ideal for supporting remote, rural, tactical, public safety, and homeland security applications.

The TLC UMTS NodeB is software defined and supports the choice of any of the UMTS Bands. Frequency can be changed **in the field** with a GUI command and swapping of a field-replaceable filter.

- **Software Defined:** supports any UMTS band
- **Long Range:** Up to 20km
- **Easy-to-use, simple management GUI**
- **Variety of form factors including Desktop, Suitcase, or Rack Mount versions available**
- **Multiple Power Amplifier options—wideband or fixed frequency**

Band	Name	Frequency
1	IMT	1920MHz UL 2110MHz DL
2	PCS	1850MHz UL 1930MHz DL
4	AWS	1710MHz UL 2110MHz DL
5	CLR	824MHz UL 869MHz DL
8	E-GSM	880MHz UL 925MHz DL

Desktop Lab System



## 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](http://www.toplevelcom.com)



3RU Rackmount Chassis

Backed by TLC Solutions' world-class integration and support services, the TLC UMTS NodeB is self-contained and can be ruggedized to survive some of the harshest weather conditions.

## SYSTEM SPECIFICATIONS

### 3G UMTS NodeB:

- 32 Channels voice or data
- 8 simultaneous voice and data (multiRAB)
- 2 Mbps UL
- 14 Mbps DL
- 3GPP Rel. 8/9 compliant
- Any UMTS operating band (1,2,4,5, and 8)
- Range: Up to 20km

### Output Power Options:

- Various options available

### Input Power

- 110-240 VAC 50/60 Hz
- 10V-48VDC (Optional)

### Temperature

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

### Humidity

- Operating 0% to 95% Non-condensing

### Dimensions

- Depends on configuration

### Weight

- Depends on configuration

### Network Interface Options

- 1 Gbps Ethernet

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