



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



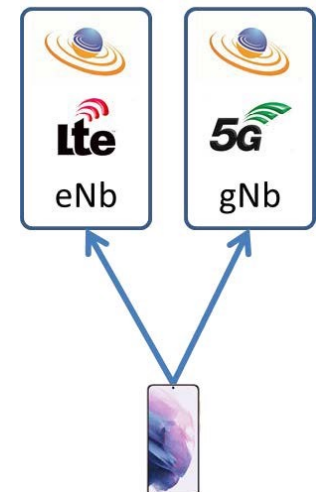
5G NSA (NON-STAND ALONE) gNODEB



- **4G+5G Sub-6 (All in one)**
- **Small form Factor**
- **Combined CU/DU Support**
- **Local/Centralized management GUI**
- **2x2 MIMO Configuration**

TLC Solutions' 5G NSA Network Architecture supports combined 4G-5G network deployments. The 5G NSA architecture provides support for networks in transition from 4G to 5G and supports both technologies.

The 5G NSA gNodeB is an integrated gNodeB solution consisting of a dual-mode small cell that supports 4G and 5G Sub-6GHz, and can provide indoor and outdoor coverage of both 4G and 5G. The platform is targeted for supporting training environments and mobile applications. This compact small cell has integrated 4G and 5G baseband, radio and antenna into a single IP65 rated product, delivering a solution that is ideal for both laboratory testing environments as well as outdoor field applications. Optionally, the configuration can be supplied with a secondary server platform to support the 4G/5G Core Network delivering the full end to end 5G NSA system solution in a man portable platform.



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 the Latest 5G systems as well as support for previous 2G, 3G, 4G and CDMA 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



Backed by TLC Solutions' world-class integration and support services, the TLC 5G NSA is self-contained and can be ruggedized to meet requirements for deployment in harsh environments.

SYSTEM SPECIFICATIONS

5G NSA (Non-Stand Alone) gNodeB:

- Number of UE's per cell:
Max. 64UE's
 - Frequency Bands:
4G: Band 3 or Band 4
5G: Band n78
 - Bandwidth
4G: 5/10/15/20 MHz
5G: 60/90/100MHz
 - Data speed:
DL/UL: 700Mbps/100Mbps
 - Antenna
4G: 2x2 MIMI
5G: 2x2 MIMO
 - RF Output Power
4G: 21dBm
5G: 24dBm
 - Backhaul
2.5G WAN/10G SFP+
- Input Power**
- 100-220VAC/DC12V
 - Power Consumption
75W
- Environmental**
- Operating -20° C to $+55^{\circ}$ C
 - IP Grade
IP65
- Dimensions**
- W270 x H355 x D100 mm
- Weight**
- 7kg



TLC Solutions Inc
USER FIRST TECHNOLOGY

All brand and product names are trademarks of their respective holders. TLC has made every effort to ensure that the information contained in this product brief is accurate. However we accept no responsibility for errors or omissions and we reserve the right to modify the design, characteristics and products at any time without notification or obligation. For the most recent version of this document or product specifications, please contact TLC Solutions, Inc..

© Copyright 2023, TLC Solutions Inc. All Rights Reserved.

TLC Solutions, Inc.
120 Cumberland Park Drive, Suite 101
St. Augustine, FL 32095
phone: (904) 829-0323
fax: (904) 217-0328
email: sales@toplevelcom.com