NetStick
Multiband LTE Cat 4 Mobile Hotspot

Fast and easy plug and play connectivity for anyone or anything on the go

Overview

Global Telecom's NetStick is a multiband LTE Cat 4 mobile hotspot designed for plug and play connectivity for small businesses and remote IoT deployments. Industry-leading MIMO technology – featuring 2×2 MIMO (up to 2Rx and 1Tx) – delivers rapid access to 4G speeds while simultaneously improving spectrum efficiency and extending the coverage area.

Features

- Supports FDD/TDD

- Plug and Play – East Set Up

- 2x2 MIMO (up to 2Rx an1Tx)

- USB 2.0 / LAN / WAN Support Failover

- Ethernet connect window mount

Key Benefits

- Supports easy and fast integration with virtually any host

- Driverless host-less System on Chip (SOC) reduces cost and power consumption

- USB to Ethernet cradle option. Converts to Ethernet and converts to any device router gateway or IOT sensor

- USB to WIFI cradle available. Produces instant hotspot

Patented Intent-Based Network Optimization

The NetStick leverages Global Telecom's patented Intent-Based Network Optimization solution, the fixed wireless industry's only platform that dynamically and automatically ensures that users are always attached to the highest performing, least congested sectors.

Technical Overview. The NetStick supports both FDD and TDD modes of LTE operation, and a host-less System on Chip (SoC) design reduces cost and power consumption. AI algorithms and watchdogs ensure reliable connections with a lifetime usage exceeding 80,000 hours. Its interface – via LAN and USB 2.0 or higher – works with different LTE eNodeB systems and supports easy and fast integration with virtually any host. The NetStick's form factor also supports advanced 4.5G technologies, such as AMC, HARQ, MIMO, DL & UL CA, and more. Roaming and handover support are available.

NETSTICK ALWAYS CONNECTED

Technical Specifications

Physical	
Dimensions	186mm (L) x 40mm (W) x 16mm (H)
Weight	17g
Power consumptions	2.5 W
Power Supply	USB / 5V @ 1A
Environmental	
Operating Temperature	Operating temperature: -20ºC to 55ºC
Storage Temperature	Storage temperature: -40ºC to 85ºC
Wireless Radio Interface	
Radio Access	3GPP Release 9, Cat 4
Operation Mode	TDD & FDD with 2x2 MIMO 2Rx / 1Tx Design
Frequency Band	LTE-FDD: B2 / B4 / B5 / B12 / 13/ 17/ B25 / B26 / B71 LTE-TDD: 41 Bandwidth: 1.4 MHz / 3 MHz / 5 MHz / 10 MHz / 15 MHz / 20 MHz
Modulations	DL: QPSK / QAM16 / QAM64 UL: QPSK / QAM16 / QAM64
CA Support	N/A
Receive Sensitivity	Compliance with 3GPP standard
Output Power	23dBm ±1dB
Antenna Gain	IPEX-1 Connectors (x2) Gain between 2 to 6 dBi depending on the band
GNSS	n/a
Wi-Fi Interface	**Optional Cradle**
Radio Access	Wifi 802.11 a/b/g 2.4 GHz
MIMO & Data Rate	2x2 mimo up to 300 MGPS
Output Power	16 dBm
Antenna	3 dB
Connected Users	USB
Security	WEP, WPA, and WPA2
User Interface	
Data Interface	USB
LED Indicators	SYS
SIM Support	4FF
Software Specifications	
Networking Configuration	USB 2.0 / LAN / WAN supports failover-Optional with LAN failover cradle
Data Networking Features	Driverless & Host-less Support (Linux, Mac OS, Android, Windows XP, Vista, and Windows 7/8/10)
Device Management	Plug and Play Support (FOTA, Http, Https, Telnet, SSH, OMA-DM, SIMOTA, TR069)