

TITAN 4000 (Multiband LTE Cat 12/15 Outdoors CPE)

Global Telecom's TITAN 4000 is an advanced LTE Cat 15 outdoors unit designed to meet the most challenging demands for high-speed wireless backhaul, fixed wireless and failover deployments. The TITAN 4000 supports FDD & TDD band operations with multiple operator networks worldwide. It uses a Gigabit PoE connection between terminal devices, such as indoor routers or WiFi AP products. The PoE interface can also work with standard PoE switches or router products. The product comes with a PoE power adapter and mounting bracket accessories for quick self-installation.

High Performance & Lightning Speed Mobile Data

The TITAN 4000 is designed to withstand the most difficult outdoors operations conditions and can safely operate in a wide temperature range from -50°C to 75°C. It meets industrial IP67 water and dustproof standard requirements with MTBF times expected to be above 80,000 hours. Depending on the network configuration and DL/UL split ratio configuration, the unit can provide up to 600 Mbps maximum throughput over the air. The typical coverage area can reach 15 km with reasonably good throughput performance.

Easy and Quick Setup

The TITAN 4000 is a user-friendly LTE CPE that's easy to install and maintain -- it's a fully integrated solution with all necessary device drivers pre-loaded. Simply connect the device to a computer or home switch/router and the device is ready for surfing the internet. LED indicators offer device operation information and IP addresses can be dynamically obtained via DHCP. Rich control features support local management access, Telnet, Http, Https and standard TR069 remote OTA management (including device configuration, monitoring and upgrades).

Technical Features

The design is based on LTE release 13 specifications with 4x4 MIMO, carrier aggregation and QAM64 modulation on the uplink. The TITAN 4000's high-gain directional patch antenna enables an extended reception that yields more efficient use of the network, a larger cell reach, guaranteed carrier class service, and customer service availability. Advanced Orthogonal Frequency Division Multiplexing (OFDM) modulation enhances performance in non-line-of-sight (NLOS) conditions to significantly reduce interference and multi-path conflicts typical of deployments in densely populated urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support high-quality data service.



- Cost effective & compact design with built-in high-gain LTE antenna.
- Compliant with 3GPP Release 13 standards.
- 4T4R radio design.
- DL 4x4 MIMO, CA (up to 4CC) and QAM256 support.
- UL QAM64, UL CA and MIMO support.
- Router and bridge operation mode support.
- IPv4 & IPv6 and multiple PDN support.
- PPT, L2TP and GRE VPN tunneling client support.
- FTP, HTTP, OMA-DM and TR-069 management.

Specifications

Physical

Dimensions:	305 mm (L) x 275 mm (W) x 142 mm (H)
Weight:	< 3 kg
Power Consumption:	< 15 W
Power Supply:	48 V / 0.5 A DC (Gigabit PoE)

Environmental

Operating Temperature:	-50°C to 75°C
Humidity:	95% max (non-condensing)

LTE Radio Interface

Radio Access:	3GPP Release 13 Category 12/15
Operation Mode:	DL 4x4 MIMO / QAM256 Inter & Intra Band CA (4CC)
Frequency Band:	TDD : B48/CBRS
Output Power:	23 dBm per Tx (2Tx)
Antenna Gain:	B48 (4x4) 14 dBi (4 directional antennas) 4x4 configuration

User Interfaces

Data Interface:	1 RJ45 10 / 100 / 1000 Mbps ETH
LED Indicators:	PWR / SYS / NET / SIM / ETH / RF (5 signal intensity LEDs)
SIM Support:	SIM card slot (2FF)

Networking Configuration:

- DHCP or static IP address assignment.
- Bridge and router operation support.
- Built-in DHCP server for LAN devices.
- IPv4 and IPv6 DS-Lite support.
- Multiple PDN interface support.
- NTP service support.
- SIM card locking.
- Network selection and cell locking provision.

Data Networking Features:

- VPN pass-through support (PPTP, L2TP & IPsec).
- Built-in L2TP & GRE tunneling clients.
- Firewall & access control.
- DMZ and virtual server support.
- IP and port filtering support.
- Local and remote management restriction.
- Application firewall support.
- LAN device access control.

Device Management:

- CLI, Telnet, HTTP and HTTPS management interfaces
- Standard-based OMA-DM or TR-069 management
- FTP and HTTP OTA firmware upgrade
- USIM and network PLMN locking support
- Factory default setting

Industry Standards:

ITU

3GPP:

IEEE IEEE 802.3	Release 13 :
IEEE 802.3u	10Base Ethernet
IEEE 802.3ab	Fast Ethernet

Others

Gigabit Ethernet

Water Resistance: IP67

Safety: FCC or CE

