Global Telecom 4G LTE CPE Modem TITAN₂

CAT12 LTE Advanced Modem

TITAN₂ is an advanced multi-band LTE CAT12/15 indoor/outdoor modem developed by Global Telecom. The device is IP65 compliant and allows easy deployment in both indoor and outdoor environments. The simple plug and play interface enables user to connect virtually any type of products and routers at ease. The device main interface is a standard Power over Ethernet (POE). The advanced 8x4 MIMO feature provides a real time industry device to provide instant 4G broadband communication capability. Offering AI algorithms and watchdogs, the device is designed to keep constant and reliable connection for years.

High performance & Speed Mobile Data

TITAN2 supports both FDD and TDD modes of LTE operation and can provide up to LTE category 12 data throughput. This far exceeds the existing wired broadband data service and thus can easily satisfy the need of high-quality HD video and VoIP applications.

Easy and Quick Integration

TITAN2 support POE/RJ45 interface to allow quick integration with different systems. It can work with different LTE eNodeB systems to enable quick deployment in different operator networks. Roaming and hand over support are also available. End user device can be connected via simple and reliable POE interface.

Superior Performance

TITAN2 adopts standard POE form factor design and support a variety of advanced 4.5G technologies such as AMC, HARQ, MIMO, DL & UL CA and etc. The host-less SoC design further help to reduce the product cost and power consumption.

Advanced MIMO Technology

TITAN2 supports advanced MIMO technology (up to 8 Rx and 4Tx). It allows the module to achieve up to LTE category 12 performance. The MIMO technology also helps to extend the coverage and greatly improve spectrum efficiency.

◆ PoE capable for simple and reliable interface.

◆ Advanced 4G capabilities with 8R2T design (Release 13 compliant)

◆ Multi-band and multi-mode (FDD & TDD) support

◆ 8*4 MIMO technology for superior 4G performance

◆ RGMII Gigabit Ethernet and USB 2.0 support

◆ Router and bridge operation mode support

◆ Full IPv4 & IPv6 and multiple PDN support

◆ PPT, L2TP and GRE VPN Tunneling clients support

◆ Advanced built-in router software & host less router operation support

◆ Http, Https, Telnet, SSH, and FOTA management support

◆ OMA-DM & SIMOTA support

Features

TITAN2 LTE CAT12 Mini PCI-E Module Specifications

Specifications

Dimension	260mm * 260mm * 29mm
Antenna Type	IPEX-1 Connectors (x8)
Power	Gigabit PoE 48V x 0.5A
Weight	1.5 kg
Power consumption	Average: 6W , Peak: 12W
Temperature	Operating temperature -35~55 ℃, Storage temperature -40~85 ℃
Standard	3GPP LTE Release13
Duplex mode	TDD & FDD with 8Rx/2Tx Design
Frequency	B2, B4, B5, B12, B17, B25, B26, B41, B66, B71
Bandwidth	1.4 MHz, 3 MHz, 5MHz, 10MHz, 15 MHz, 20 MHz
Modulations	DL: QPSK, QAM16, QAM64, QAM256 UL: QPSK, QAM16, QAM64
DL MIMO & CA	8x4 MIMO & CA Up to 4CC
UL Support	UL CA (2CC) & QAM64
Tx Power	23dBm ±1dB per Tx (Up to 2 Tx)
Networking Interface	Standard PoE
Management	Plug and Play Support Http, Https, Telnet, SSH, OMA-DM, SIMOTA
Operating system	Driverless and Host-less Support Linux, Mac OS, Android, Windows XP, Vista, and Windows 7/8/10