



Key Benefits

- ✓ Cost effective & compact design with built-in high gain LTE antenna
- ✓ Compliant to 3GPP Release 11 standards
- ✓ 2T4R Radio Design
- ✓ Advanced 4x4 MIMO & CA (2CC & 4CC) support and CAT12 data throughput
- ✓ Router and bridge operation mode support
- ✓ IPv4 & IPv6 and Multiple PDN support
- ✓ PPT, L2TPV3, SNMP and GRE VPN Tunneling clients support
- ✓ FTP, HTTP and TR-069 management support
- ✓ 48V Gigabit PoE Power



JATONTEC 8500D is a most advanced LTE CAT12 outdoor data unit specially designed to meet the most challenging demands of today's high speed wireless backhaul and fixed wireless access deployments by the 4G service operators. The unit can support multiple TDD band operations. Multiple operator network support can also be provisioned on the unit to allow the deployment across entire country with different operators..

JT8500D provides Gigabit PoE connection to connect user terminal device such as indoor router or Wi-Fi AP products. The unit PoE interface can also work with standard PoE switches or router products. The product comes with PoE power adapter and mounting bracket accessories for quick self-installation.

RELIABLE PERFORMANCE

JT8500D is designed to meet the stringent operation environment for outdoor CPE devices. The device can safely operate in a wide temperature ranging from -40 to +55 degree and meets industrial IP67 water and dust proof standard requirements. The device MTBF time is expected to be above 80,000 hours. Depending on the network configuration and DL/UL split ratio configuration, the unit can provide up to 440 Mbps TDD max throughput over the air. The typical coverage should be more than 15km with reasonable good throughput performance.

EASY USAGE & MANAGEMENT

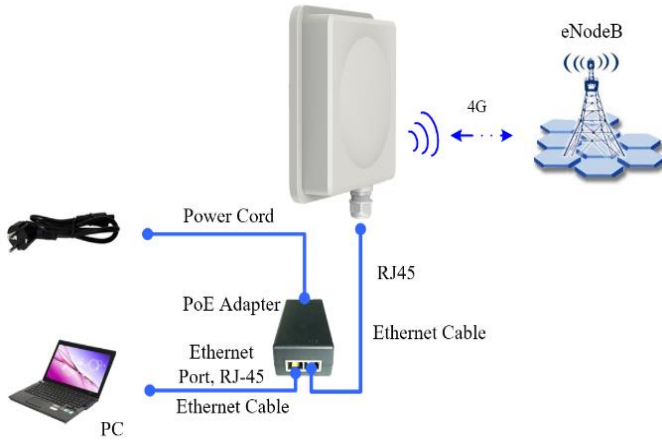
JT8500D is a user-friendly LTE CPE that is easy to install and maintain. The unit is fully integrated and comes with all the necessary device drivers pre-loaded. Subscribers just connect the device to their computer or home switch/router and the device is ready to offer an experience of surfing over Internet. The LEDs on the JT8500D have also been designed for user convenience, and offer a clear sign of what the device is doing. The IP addresses can be dynamically obtained via DHCP.

JT8500D offers rich management features which facilitate the task of carrier. It supports local management access, Telnet, Http, Https and standard TR069 remote OTA management including device configuration, monitoring, and upgrades management.

TECHNICAL FEATURES

JT8500D design is based on the standard implementation of LTE release 11 specification. It is able to meet the most demanding requirements of large service providers with high throughput and availability. JT8500D is a CAT12 CPE and supports advance features such as 4x4 MIMO and Carrier Aggregation, QAM256 modulation on the uplink.

With high gain directional patch antenna, JT8500D enables a longer reception range from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier class service, and customer service probability. Advanced Orthogonal Frequency Division Multiplexing (OFDM) modulation enhances performance in non-line-of-sight (NLOS) conditions to ensure immunity to interference and multi-path conflicts typical of deployments in densely populated urban areas. Moreover, sophisticated QoS capabilities ensure true end-to-end QoS and support high quality data services.



LTE Radio Interface

- Radio Access : 3GPP Release 11, Category 12
- Operation Mode : 4Rx, 2Tx, DL 4*4 MIMO
- CA : DL 2CA (4x4 MIMO 64 QAM);
DL 4CA (2x2 MIMO 256QAM);
UL 2CA(64QAM);
- MIMO : DL 2x2 MIMO (4CA);
DL 4x4 MIMO(2CA);
UL 2x2 MIMO;
- Frequency Band : B42/43/48
- Output Power : 23dBm per Tx
- Antenna Gain : 13dBi (4 antenna model)
17dBi (2 antenna model)

Technical Specifications

CONFIGURATIONS & MANAGEMENT

Network configuration:

- DHCP or Static IP address Assignment
- Bridge and Router Operation Support
- Built-in DHCP Server for LAN Devices
- IPv4, IPv6 DS-Lite Support
- Multiple PDN interface support
- NTP Service Support
- SIM card locking feature
- Network selection and cell locking provision

Data Networking Features:

- VPN Pass-through support (PPTP, L2TPV3 & IPsec)
- Built-in L2TP & GRE Tunneling Clients
- L2 VPN networking support
- 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 Interfaces
- Standard Based TR-069 Management
- FTP and HTTP OTA Firmware Upgrade
- USIM and Network PLMN Locking Support
- Device Factory Default Setting

PHYSICAL & ENVIRONMENTAL

- Power DC** : 48V/0.5A (Gigabit PoE)
- Power Consumption** : <15W
- Weight** : <2.5Kg
- Dimensions** : 250mm (L) * 250mm(W) * 75mm(D)
- Environment** : Operating Temperature, -40°C~55°C.
Humidity, 95% max Non-condensing

USER INTERFACE

- Data Interface** : 1 RJ45 10/100/1000M ETH Port
- LED Indicator** : PWR, SYS, NET, SIM, ETH,
RF (5 Signal intensity LEDs)
- SIM Card** : Single SIM card slot (2FF)

Industry Standards

- ITU** : 3GPP Release 11
- IEEE** : IEEE 802.3 10Base Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
- OTHERS** : Water Resistance : IP67
Safety : FCC or CE