Key Features

- CAT12 3GPP R11
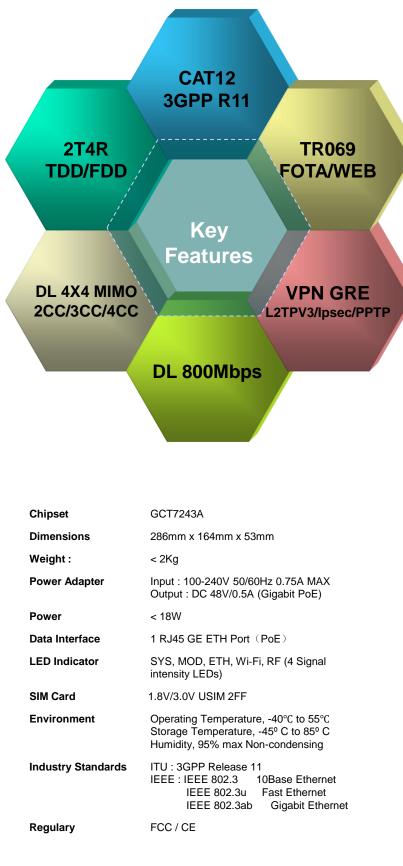- 2T4R TDD/FDD
- TR069 FOTA/WEB
- DL 4X4 MIMO 2CC/3CC/4CC
- VPN GRE L2TPV3/Ipsec/PPTP
- DL 800Mbps

JT7500D 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/FDD band operations. Multiple operator network support can also be provisioned on the unit to allow the deployment across entire country with different operators.

JT5500D 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 800Mbps max throughput over the air. The typical coverage should be more than 15km with reasonably good throughput performance.

JT7500D 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.

JT7500D 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 JT7500D 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.

JT7500D offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS systems.

JT7500D design is based on the standard implementation of LTE release 11 specification. It can meet the most demanding requirements of large service providers with high throughput and availability.

JT7500D is a CAT12 CPE and supports advance features such as 4x4 MIMO and Carrier Aggregation, QAM64 modulation on the uplink.

Chipset	GCT7243A
Dimensions	286mm x 164mm x 53mm
Weight :	< 2Kg
Power Adapter	Input : 100-240V 50/60Hz 0.75A MAX Output : DC 48V/0.5A (Gigabit PoE)
Power	< 18W
Data Interface	1 RJ45 GE ETH Port（PoE）
LED Indicator	SYS, MOD, ETH, Wi-Fi, RF (4 Signal intensity LEDs)
SIM Card	1.8V/3.0V USIM 2FF
Environment	Operating Temperature, -40℃ to 55℃ Storage Temperature, -45º C to 85º C Humidity, 95% max Non-condensing

Industry Standards	ITU : 3GPP Release 11
	IEEE : IEEE 802.3 10Base Ethernet
	        IEEE 802.3u Fast Ethernet
	        IEEE 802.3ab Gigabit Ethernet

Regulary	FCC / CE

4G· 5G FWA

RF Interface

LTE Radio Access	3GPP Release11 Category12
Operation Mode	TDD/FDD, 4Rx, 2Tx, DL 4x4 MIMO
CA	DL CA (2CC & 4CC), UL CA (2CC), UL QAM64
Receive Sensitivity	Compliance with 3GPP standard
Output Power	23dBm±2dB
QoS Support	Non-GBR and GBR
Frequency Band	FDD B1/2/3/5/7/8/12/20/25/28/66 TDD B38/39/40/41/42/43/48
Antenna Gain	700~960MHz 3dBi 1700~2700MHz 5dBi (4x4） 3400~3800MHz 7dBi (4x4）
WiFi Radio Access	IEEE802.11b/g/n
MIMO	2 x 2
Output Power	15dBm
Antenna	3dBi
Connected Users	8
Security	64/128-bit WEP, WPA/WPA2

Model ID

Sucker **Wall mounting bracket** **Pole bracket**

Network

Network configuration	Router and L3 Bridge Operation Support Built-in DHCP Server for LAN Devices IPv4, and IPv6 DS-Lite Support for LTE Multiple PDN Interface Support
Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec) Built-in L2TP & GRE Tunneling Client Support DNS Proxy Support Firewall & Access Control DMZ and Virtual Server Support IP and Port Forwarding Support Local and Remote Management Restriction Application Firewall Support NTP Service Support LAN Device Access Control
Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces Standard Based TR-069 Management FTP and HTTP OTA Firmware Upgrade USIM and PLMN Locking Support Device Factory Default Setting

Connect Device

eNodeB — Windows CPE JT7500D

Electrical outlet

Data + Power
RJ45

PoE Injector

Data
RJ45