



JT8800D is a state-of-the-art 5G NSA/SA NR Sub-6G outdoor data unit specially designed to meet the most challenging demands of today's high-speed wireless backhaul and fixed wireless access deployments by 5G/4G service operators. This unit can support multiple TDD band operations. It can also be configured to support multiple operator networks, enabling deployment across the entire country with different operators.

RELIABLE PERFORMANCE

JT8800D is designed to adapt to the stringent operating environment for outdoor CPE devices. The device can operate safely within a wide temperature range from -40 to +55 degrees Celsius and meets the industrial IP67 waterproof and dustproof standard requirements. The expected MTBF of the device is above 80,000 hours. Depending on the network configuration and the DL/UL split ratio configuration, the unit can provide a maximum throughput of up to 4.3 Gbps over the air. The typical coverage should exceed 15 kilometers with reasonably good throughput performance.

JT8800D provides a 2.5G PoE connection to connect user terminal devices such as indoor routers or Wi-Fi AP products. The PoE interface of the unit 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.

EASY USAGE & MANAGEMENT

JT8800D is a user-friendly 5G NSA/SA NR Sub-6G 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 need to connect the device to their computer or home switch/router, and the device will be ready to provide an Internet surfing experience. The LEDs on the JT8800D are also designed for user convenience and clearly indicate what the device is doing. The IP addresses can be dynamically obtained via DHCP.

The JT8800D offers rich management features that facilitate the tasks of service providers. It supports local management access, Telnet, WEB access, and centralized remote OTA configuration, upgrades management, and device monitoring via the standard TR-069 ACS systems.

TECHNICAL FEATURES

The design of JT8800D is based on the standard implementation of the 3GPP Release 16 specifications. It is capable of meeting the most demanding requirements of large service providers in terms of high throughput and availability. The JT8800D is compatible with 4G LTE CAT20 standards and supports advanced features such as 4x4 MIMO and Carrier Aggregation up to 100 MHz.

4G- 5G FWA



Technical Specifications

Physical

Dimensions	290mm x 300mm x 97mm
Weight	< 2.5Kg
Power consumptions	< 12W
Power Supply	48V 0.5A DC (Passive PoE)
Ingress Protection	IP67

Environmental

Operating Temperature	-40°C to 55°C
Storage Temperature	-45°C to 85°C
Humidity	90% max non-condensing

Wireless Radio Interface

Radio Access	3GPP Release 16, 5G NSA/SA NR Sub-6G/LTE-TDD
Chipset	Qualcomm X62
Operation Mode	4 x 4 MIMO
Frequency Band	5G n78/n40/n38, 4G B40/B42/B43
Receive Sensitivity	Compliance with 3GPP standard
Output Power	23dBm±2dB
Antenna Gain	2300-3800MHz 13-15dBi

User Interface

Data interface	1 RJ45 10/100/1000/2500M ETH Port
GPS	option
LED Indicators	PWR, SYS, NET, SIM, ETH, RF (5 Signal intensity LEDs)
SIM Support	1.8V/3.0V USIM 2FF

Wi-Fi Radio Interface (For Device Management)

Radio Access	IEEE802.11b/g/n
MIMO	2 x 2
Output Power	15dBm
Antenna	3dBi
Connected Users	32
Security	64/128-bit WEP, WPA/WPA2

SW Specifications

Networking 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
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