

JT8900D is the most advanced 5G NSA/SA NR Sub-6G outdoor data unit. It is specially designed to meet the most challenging demands of today's high-speed wireless backhaul and fixed wireless access deployments by 5G/4G/3G service operators. This unit can support multiple TDD & FDD band operations. Multiple operator network support can also be configured on the unit to enable its deployment across the entire country with different operators.

RELIABLE PERFORMANCE

The JT8900D is designed to meet the strict operating environment requirements for outdoor CPE devices. It can operate safely within a wide temperature range from -40 to +55 degrees Celsius and meets the industrial IP67 water and dust proof standard requirements. The MTBF of the device is expected to be above 80,000 hours. Depending on the network configuration and the downlink/uplink split ratio configuration, the unit can provide a maximum throughput of up to 4Gbps over the air. The typical coverage should be more than 15 kilometers with reasonably good throughput performance.

The JT8900D 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.

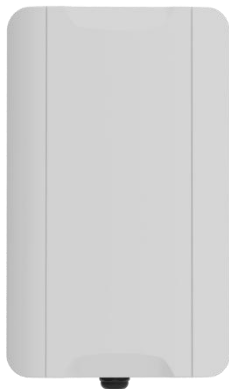
EASY USAGE & MANAGEMENT

The JT8900D is a user-friendly 5G NSA/SA NR Sub-6G CPE that is easy to install and maintain. It 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 offer an Internet surfing experience. The LEDs on the JT8900D are also designed for user convenience and clearly indicate what the device is doing. The IP addresses can be dynamically obtained via DHCP.

The JT8900D offers rich management features that facilitate the tasks of service providers. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS systems.

TECHNICAL FEATURES

The design of the JT8900D is based on the standard implementation of 3GPP release 16 specifications. It can meet the most demanding requirements of large service providers in terms of high throughput and availability. The JT8900D is compatible with 4G LTE CAT20 standards and supports advanced features such as 4x4 MIMO and Carrier Aggregation up to 100MHz.



Installing ODU – Clamp



Insert SIM Card

Technical Specifications

Physical	
Dimensions	330mm x 200mm x 85mm
Weight	< 2Kg
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 5G NR Sub-6G /LTE-TDD/LTE-FDD/WCDMA
Chipset	Qualcomm X62
Frequency Band (NA Version)	5G-NR: n2/5/7/12/13/14/25/26/29/30/38/41/48/66/71/77/78/79 LTE-FDD: B2/4/5/7/12/13/14/17/25/26/29/30/66/71, LTE-TDD: B38/41/42/43/46*/48 WCDMA: B2/4/5
Frequency Band (EU Version)	5G-NR: n1/3/5/7/8/20/26/ 28/40/41/48/77/78/79 LTE-FDD: B1/3/5/7/8/18/19/20/26/28/32 LTE-TDD: B38/39/40/41/42/43/46*/48 WCDMA: B1/5/8
Receive Sensitivity	Compliance with 3GPP standard
Output Power	23dBm±2dB
Antenna Gain	617-960MHz 2-3dBi (2x2) / 1400-2700MHz 7-9dBi (4x4) / 3300-6000MHz 9-10dBi (4x4)

User Interface

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

SW Specifications

Networking Configuration	Router and L3 Bridge Operation Support Built-in DHCP Server for LAN Devices IPv4 and IPv6 Support 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