

DWR-2000U

5G AX3000 Indoor CPE

Features

- Supports 3G/4G/5G global frequency bands.
- Compliant with IEEE 802.11a/b/g/n/ac/ax, AX3000, 2*2 MIMO Wi-Fi 6, support dual band 2.4 GHz/5GHz
- Support Wi-Fi Mesh feature.
- Supports Multiple VPN tunnels for data encryption.
- Supports Central Management Platform.
- Supports local web UI and remote FOTA update firmware.
- User friendly web interface for user interaction.

DWR-2000U Cellular Indoor Router is a wireless communication product developed based on 3G/4G LTE/5G network requirements.

Supports 3G/4G LTE/5G global frequency bands. Supports 3G/4G LTE/5G internet high speed access. Support 5G NSA up to 5.47Gbps (DL)/825Mbps (UL). 5G SA maximum 4.67Gbps (DL)/1.25Gbps (UL) access bandwidth service. It supports 1*2.5Gbps/1* Gigabit Ethernet ports, one RJ11 telephone port, and supports VOLTE voice.

Support for 802.11AX WIFI 6, 2.4GHz/5GHz dual-band feature. Supports Wi-Fi mesh feature. And provide users with Wi-Fi 6, AX3000 large bandwidth hotspot sharing.

Meet the access and sharing of more than 32 users Wi-Fi hotspot. Meet the needs of consumers, enterprises, and SMBs to provide 4G/5G high-speed Internet access services.

Cellular Features	
3G/4G/5G Data Connectivity	5G NR SA and NSA, LTE-FDD, LTE-TDD, DC-HSDPA, HSPA+, HSDPA,HSUPA and UMTS networks.
3G/4G/5G Frequency Bands	5G NR 5G Sub-6: n1/3/5/7/8/20/28/38/40/41/77/78 LTE FDD: B1/3/5/7/8/20/28/32 LTE TDD: B38/40/41/42/43 WCDMA: B1/5/8 MIMO: 5G NR: DL 4 × 4 MIMO: n1/3/7/28/38/40/41/77/78 UL 2 × 2 MIMO: n40/41/77/78 LTE: DL 4 × 4 MIMO: B1/3/7/28/32/38/40/41/42/43
3G/4G/5G Data Rates	◆ 5G NSA. Max 5.47Gbps (DL)/825Mbps (UL) ◆ 5G SA. Max. 4.67Gbps (DL)/1.25Gbps (UL) ◆ LTE. Max 1.6Gbps (DL)/211Mbps (UL) ◆ WCDMA. Max 42Mbps (DL)/ 11.5Mbps (UL)
5G NR	◆ 3GPP Release 16 ◆ Supported modulations: - Uplink: π/2-BPSK, QPSK, 16QAM, 64QAM and 256QAM, 200MHz 2 UL CA - Downlink: QPSK, 16QAM, 64QAM and 256QAM, 200MHz 2 DL CA ◆ Supported SCS: 15 kHz and 30 kHz ◆ Option 3x, 3a, 3 and Option 2
LTE	◆ 3GPP Release 16 ◆ LTE Category: DL Cat 19/ UL Cat 18 ◆ Supported modulations. - Uplink: QPSK, 16QAM and 64QAM and 256QAM, 40MHz 2 ULCA - Downlink: QPSK, 16QAM and 64QAM and 256QAM, 100MHz 5 DLCA, ◆ Supports 1.4/3/5/10/15/20 MHz RF bandwidth
UMTS	◆ Compliant with 3GPP Rel-8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA ◆Modulations: – DL: QPSK, 16QAM and 64QAM – UL: BPSK, QPSK, 16QAM
3G/4G/5G Transmitting Power	◆ Class 3 (24dBm ± 1.5dB) for WCDMA bands ◆ Class 3 (23dBm ± 2dB) for LTE-TDD bands ◆ Class 2 (26dBm ± 2dB) for NR N41/77/78 ◆ Class 3 (23dBm ± 2dB) for LTE-FDD bands ◆ Class 3 (23dBm ± 2dB) for NR bands ◆ Class 1.5 (29dBm ± 2dB) for NR N41/77/78
Antennas	4 * 4G/5G internal antenna,4*4 MIMO, with 50 Ω impedance.

SIM card Features	
SIM card	Supports 1* SIM slots, 1.8V / 3V . Or 1* eSIM card. (Optional)
Hardware Features	
CPU	Quad-core ARM Cortex-A55 up to 2GHz , Unisoc V620
Memory	1GB RAM+4GB ROM
Hardware Interface	1*2.5Gbps WAN/LAN+1*Gbps LAN ports. 1*USB2.0 port, 1*RJ11 VOLTE
Watchdog	Built-in watchdog feature
Key button	Reset, WPS or MESH, Power-on/off
Protection Level	Ethernet port , Contact electric shock, +/-4KV, air discharge: +/-8KV.
LED Status Indicator	Power, Wi-Fi, 5G, 4G
Power Supply	Power supply input. DC 12V/2.5A
Peak current	Max current. 2.5A @12V
Working current	Max 450 mA, 5.4W @12 V
Power Consumption	Idle. 120mA, 1.44W @12 V, Data link. Max 450 mA, 5.4W @12 V, Peak. Max 710mA , 8.52W @12V
Temperature	Operating Temperature 0 ºC ~+50ºC, Storage Temperature -40~+70ºC
Environment humidity	5%~95% ,no condensation.
Ingress Protection	IP30
Housing	ABS plastic material, white shell.
Dimensions	110mm*112mm * 195mm
Installations	Desktop placement
Weight	670g
Wi-Fi 6	
WLAN	* IEEE 802.11 a/b/g/n/ac/ax, AX3000 Wi-Fi 6 . Max bandwidth 2975Mbps * Supports 2.4G/5GHz Wi-Fi 6 * Supports Dynamic Frequency Selection (DFS, radar detection). * Supports 20 MHz/40 MHz channel bandwidth for 2.4 GHz and 20 MHz/40 MHz/80 MHz/160 MHz channel bandwidth for 5 GHz. * Supports 2x2 Multi-User Multiple-Input Multiple-Output (MU-MIMO).
Wireless Mode	Supports AP
Wireless Security	Supports WPA2-PSK (AES), WPA/WPA2-PSK (TKIP/AES) WPA3 protocols for Wi-Fi Authentication .
Antennas	2*2 MIMO internal antenna , with 50 Ω impedance.
Wi-Fi	Supports more than 32 users to share WIFI for accessing to the Internet.

Software Feature	
WAN	PPPoE
	PPPoE Dual Stack IPv4/IPv6
	IPv6 PPPoE
	Static IPv4 / Dynamic IPv4
	Static IPv6 / Dynamic IPv6
	DHCP
	Bridge
Protocol	Supports IPv4 and IPv6
Security	Firewall SPI
	DDoS
	Access Control
	Filtering of services
Functionality	TR-069
	Online Upgrade - FOTA
	EasyMesh Protocol (WIFI)
	VoLTE
	DHCP
	NAT : ALG , Virtual server , Port Trigger ,DMZ , UPnP
	QoS
	VPN : IPsec , OpenVPN
Parental Control	Content filtering
	Mobile applications filtering
	Access time management
	Time limits and connection blocking per device
Device management	Application Mobile
	Web UI
Certification	
Certification	CE/RoHS

Order Information	
Part Number	DescriptionDWR-2000U/K1
Description	5G AX3000 Indoor CPE