

DWR-8211V

5G NR Indoor CPE with WiFi 7 BE3600 &
1.54" Smart LCD Display

5G 4CC FR1 Carrier Aggregation

• Supports 3CC and 4CC configurations • EN-DC: up to 4 LTE + 2 FR1

• Peak DL: up to 7.01 Gbps (SA)

5G NR Sub-6

WiFi 7 BE3600

2.5GbE

MediaTek T830

Smart LCD



Key Features

Enterprise-grade 5G fixed wireless access designed for carrier deployments

5G NR Sub-6GHz
SA/NSA with DL up to 7.01 Gbps, 4x4 MIMO, EN-DC, HPUE support – Qualcomm RG620T Rel-16 modem

Wi-Fi 7 BE3600
802.11be with 2880 Mbps peak, 160 MHz bandwidth, MU-MIMO 2x2+2x2, supports up to 512 clients

1.54" Smart LCD
Built-in color display shows signal strength, speed, connected devices, QR code Wi-Fi sharing

MediaTek T830
Quad-core ARM Cortex-A55 @ 2.2 GHz with 1 GB LPDDR4X RAM and 4 GB eMMC storage

Carrier-Grade Security
WPA3, SPI firewall, IP/MAC/URL filtering, SIM PIN/PUK, TR-069 remote management

2.5GbE + Easy Deploy
Dual 2.5 Gbps Ethernet ports, RJ11 voice, plug-and-play SIM, FOTA & local firmware updates

1.54" Smart LCD Interface

Built-in color display provides at-a-glance network status, device configuration, and WiFi QR code sharing – no app or browser required

Home Dashboard
Signal strength, WiFi Status, WPS & QR code sharing

Speed Test
Test your real network speed

Factory Reset
On-device factory data reset with confirmation

Firmware Update
OTA firmware update with progress indication

Sleep Mode
Configurable screen hibernation timer options

Real-time signal strength & band info	Connected device count (WiFi 2.4G/5G)	One-button firmware update	Configurable screen sleep timer
Download/upload speed indicator	QR code for instant Wi-Fi connection	Factory reset with on-screen confirmation	Physical button: click to switch, double-click to confirm

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Technical Specifications

Complete hardware and software specifications

Hardware & Platform	
Platform	MediaTek T830, 4-core ARM Cortex-A55 @ 2.2 GHz
Modem	Quectel RG620T-EU / RG620T-NA (3GPP Rel-16)
OS	Linux
RAM	1 GB LPDDR4X
ROM	4 GB eMMC Flash
Display	1.54" TFT LCD color screen (240×240 px)
Ethernet	RJ45 2.5 Gbps WAN/LAN ×1 + 2.5 Gbps LAN ×1
Voice Port	RJ11 ×1
USB	1× USB Type-C
Power	Φ5.5 DC / AC 100–240V 50/60Hz, DC 12V 2.5A
Consumption	ON: Max 36W / OFF: Max 0.5W
Antenna	Internal omni-directional (3G/4G/5G: 6 dBi, Wi-Fi: 3 dBi) + 2× external SMA (4G/5G)
LEDs	Battery (green), WiFi (3-color), 4G (3-color), 5G (3-color)
Buttons	WPS + Power + Reset (pinhole)
Dimensions	105.6 × 105.6 × 193.6 mm
Weight	TBD
Operating Temp	–20°C to 60°C (storage: –40°C to 70°C)
Humidity	40°C / 90–95% (storage: 10–95%)
ESD	Contact ±4 kV / Air ±8 kV
Boot Time	< 60s from power-on to internet

5G / LTE / WCDMA Cellular	
Air Interface	5G NR Sub-6GHz, LTE, WCDMA
5G NR Bands (EU)	n1 / n3 / n5 / n7 / n8 / n20 / n28 / n38 / n40 / n41 / n75 / n76 / n77 / n78
5G NR Bands (NA)	n2 / n5 / n7 / n12 / n13 / n14 / n25 / n26 / n29 / n30 / n38 / n41 / n48 / n66 / n70 / n71 / n77 / n78
LTE FDD (EU)	B1 / B3 / B5 / B7 / B8 / B20 / B28 / B32
LTE TDD (EU)	B38 / B40 / B41 / B42 / B43 / B46
LTE FDD (NA)	B2 / B4 / B5 / B7 / B12(17) / B13 / B14 / B25 / B26 / B29 / B30 / B66 / B70 / B71
LTE TDD (NA)	B38 / B41 / B42 / B43 / B46 / B48
WCDMA (EU)	B1 / B5 / B8
5G NR Bandwidth	TDD: 10–100 MHz / FDD: 5–50 MHz
5G DL/UL MIMO	DL 4×4 MIMO / UL 2×2 MIMO
5G NR Peak (SA)	DL: 7.01 Gbps / UL: 2.5 Gbps
5G NR Peak (NSA)	DL: 5.67 Gbps / UL: 1.46 Gbps
5G CA	4 FR1 / EN-DC: 4 LTE + 2 FR1, 5 LTE + 1 FR1
5G Modulation	DL/UL 256QAM
TX Power Class	Class 3 (23 dBm), HPUE Class 2 (26 dBm), Class 1.5 (29 dBm)
LTE Peak	Cat19 DL / Cat18 UL — 1.6 Gbps (DL) / 211 Mbps (UL)
LTE CA	DL: 5CC / UL: 2CC
SIM Slot	Nano-SIM (4FF) Standard 8PIN, eSIM (optional)

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Wireless Specifications	
Chipset	MT7990A + MT7976C
Standard	WiFi 7, IEEE 802.11a/b/g/n/ac/ax/be
Capability	BE3600, MIMO 2x2, Bandwidth 160 MHz
2.4 GHz	802.11b/g/n/ax/be — 20/40 MHz (2.4–2.4835 GHz)
5 GHz	802.11a/n/ac/ax/be — 20/40/80/160 MHz (5.15–5.925 GHz)
Max Rate (11be)	2880 Mbps @ 5 GHz & 688 Mbps @ 2.4 GHz
Max Rate (11ax)	2402 Mbps @ 5 GHz & 574 Mbps @ 2.4 GHz
Max Rate (11ac)	1732 Mbps @ 5 GHz & 300 Mbps @ 2.4 GHz
Antenna	MU-MIMO, 2x2 + 2x2
Max Users	512
Range	80 m
TX Power	18 dBm (11b) / 16 dBm (11g/11a) / 15 dBm (11n/11ac) / 14 dBm (11ax) / 13 dBm (11be)
Encryption	WPA/WPA2/WPA3 Personal, WPS 2.0, WAPI

Ordering Information	
DWR-8211V	5G NR Indoor CPE with WiFi 7 BE3600 & LCD Display

Management, Security & Network	
Web GUI	HTTP-based local management interface
LCD Interface	On-device status, settings, QR code WiFi sharing
Device Mgmt	Web Access (local), TR-069 Supported (CWMP)
FOTA Update	OTA firmware update supported
Local Update	Supported
Firewall	IP-based, port/protocol-based, MAC-based, URL filter
Security	Port forwarding, DMZ, DoS protection, SIM PIN/PUK, WAN access control, remote HTTP
WAN	Static IP / DHCP Client / NTP Client
LAN Mode	NAT mode, Bridge mode
IPv4/IPv6	Internet Protocol v4/v6, ICMPv6
VPN	Not supported
DNS	DNS relay / DNS cache
Encryption	AES
Services	Broadcasting, Multicasting
Configuration	Auto channel scanning and selection, configurable BS profiles
Certifications	CE, FCC, IC, RoHS