

DWR-2000M/D1

5G NR Indoor CPE with WiFi 6 AX3000
& 1.54" Smart LCD Display

5G 2CC Carrier Aggregation

- Supports 3GPP Rel-15 • Supports 2CC CA
- EN-DC: up to 4 LTE + 2 FR1 - Peak DL: up to 4.67 Gbps (SA TDD)

5G NR Sub-6

WiFi 6 AX3000

2.5GbE

MediaTek T750

Smart LCD



Key Features

5G Fixed Wireless Access designed for carrier deployments



5G NR Sub-6GHz

SA/NSA with DL up to 4.67 Gbps, 4x4 MIMO, 2CC CA, EN-DC, HPUE support – 3GPP Rel-15



WiFi 6 AX3000

802.11ax with 2402 Mbps @ 5 GHz + 574 Mbps @ 2.4 GHz, 160 MHz bandwidth, MU-MIMO 2x2+2x2, up to 512 clients



1.54" Smart LCD

Built-in color display shows signal strength, speed, connected devices, QR code WiFi sharing



MediaTek T750

Quad-core processor with 1 GB DDR4 RAM and 4 GB eMMC storage, running Linux OS



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

- One-button firmware update

- Download/upload speed indicator

- Factory reset with on-screen confirmation

- Connected device count (WiFi 2.4G/5G)

- Configurable screen sleep timer

- QR code for instant WiFi connection

- Physical button: click to switch, double-click to confirm

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Technical Specifications

Complete hardware and software specifications

Hardware & Platform	
Platform	MediaTek T750
OS	Linux
RAM	1 GB DDR4
ROM	4 GB eMMC Flash
Display	1.54" LCD x1
Ethernet	RJ45 2.5 Gbps WAN/LAN x1 + 2.5 Gbps LAN x1
Voice Port	RJ11 x1
USB	1x USB Type-C
Power	@5.5-DC 12V *1
Consumption	ON State: Max 36W / OFF State: Max 0.5W
Antenna (LTE)	Internal Antenna
Antenna (5G)	Internal Antenna
Antenna (WiFi)	Internal Antenna
Antenna (Diversity)	Internal Antenna
LEDs	Battery LED (1 green), WiFi LED (3 colors), 4G LED (3 colors), 5G LED (3 colors)
Buttons	WPS + Power + Reset (pinhole)
ESD	Contact ±4 kV / Air #8 kV
Operating Temp	-20°C to 60°C (storage: -40°C to 70°C)
Humidity	Working: 40°C / 90-95% (storage: 10-95%)
Boot Time	< 60s from power-on to internet

5G / LTE / WCDMA Cellular	
2G GPRS/EDGE	-
WCDMA/HSPA	Band1/ Band5 / Band8
4G LTE	B1/B3/B5/B7/B8/B20/B28/B38/B40/B41/B42/B43 (B32/B71 optional)
LTE CA	Reference to CA sheet
5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78 (n75/n76/n71 optional)
CA & EN-DC	Reference to CA and EN-DC sheet
RF Antenna	Internal MIMO
TX Mode	2Tx
RX Mode	4Rx
Standard	3GPP Release 15
5G Rate Features	Supports 3GPP Rel-15 · 2CC CA · UL/DL 256-QAM · DL 4x4 MIMO (n1/n3/n7/n28/n38/n40/n41/n77/n78) · UL 2x2 MIMO (n40/n41/n77/n78) · SA and NSA · Option 3x/3a/3 and Option 2 · NSA TDD: 4.67 Gbps DL / 0.836 Gbps UL · SA TDD: 4.67 Gbps DL / 1.25 Gbps UL
LTE Rate Features	FDD and TDD - 1.4-20 MHz bandwidth · DL 4x4 MIMO (B1/B3/B7/B38/B40/B41/B42/B43) · UL/DL 256-QAM · Max 1.6 Gbps DL / 211 Mbps UL
UMTS Rate Features	3GPP R9 DC-HSDPA/HSPA+/HSDPA/HSUPA/WCDMA · QPSK/16-QAM/64-QAM · DC-HSDPA: 42 Mbps · HSUPA: 11.5 Mbps · WCDMA: 384 kbps DL/UL
TX Power	WCDMA: Class 3 (24 dBm +1/-3 dB) · LTE-FDD: Class 3 (23 dBm ±2 dB) · LTE-TDD: Class 3 (23 dBm ±2 dB) · 5G NR: Class 3 (23 dBm ±2 dB) · 5G NR n41/n77/n78 HPUE1: Class 2 (26 dBm +2/-3 dB)
TX Dynamic Range	65 dB
RX Sensitivity	-97 dBm @ 10 MHz QPSK · -94 dBm @ 20 MHz QPSK
SIM Slot	Nano-SIM (4FF) Standard 8PIN, eSIM (optional)

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WIRELESS (WI-FI 6) SPECIFICATIONS

CHIPSET	MT7916 + MT7976
STANDARD	WiFi 6, IEEE 802.11a/b/g/n/ac/ax
2.4 GHZ	802.11b/g/n/ax - 20/40 MHz (2.4-2.4835 GHz)
5 GHZ	802.11a/n/ac/ax - 20/40/80/160 MHz (5.15-5.925 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)
RX SENSITIVITY	MCS11: -58 dBm · MCS9: -63 dBm · MCS7: -68 dBm · 54M: -70 dBm · 11M: -83 dBm · 6M: -88 dBm · 1M: -90 dBm @ 10% PER
ENCRYPTION	WPA/WPA2/WPA3 Personal, WPS 2.0, WAPI

MANAGEMENT, SECURITY & NETWORK

Web GUI	HTTP-based local management interface
ENCRYPTION	AES / NULL
DEVICE MGMT	Web Access (Local)
CONFIGURATION	Auto channel scanning and selection . Configurable BS profiles (frequency, bandwidth)
WAN	Static IP (IP/Subnet/Gateway/DNS) · DHCP Client · NTP Client
LAN MODE	NAT mode, Bridge mode
IPV4/IPV6	Internet Protocol v4/v6, ICMPv6
FIREWALL	IP-based filter · Port/Protocol-based filter · MAC-based filter · URL filter
SECURITY	Port Forwarding, DMZ; Firewall (URL/MAC/DoS); SIM PIN/PUK; WAN Access Control; Remote access control (HTTP)
DNS	DNS relay / DNS cache
SERVICES	Broadcasting, Multicasting
FOTA UPDATE	Supported
SOFTWARE UPDATE	Supported (local update)

ORDERING INFORMATION

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