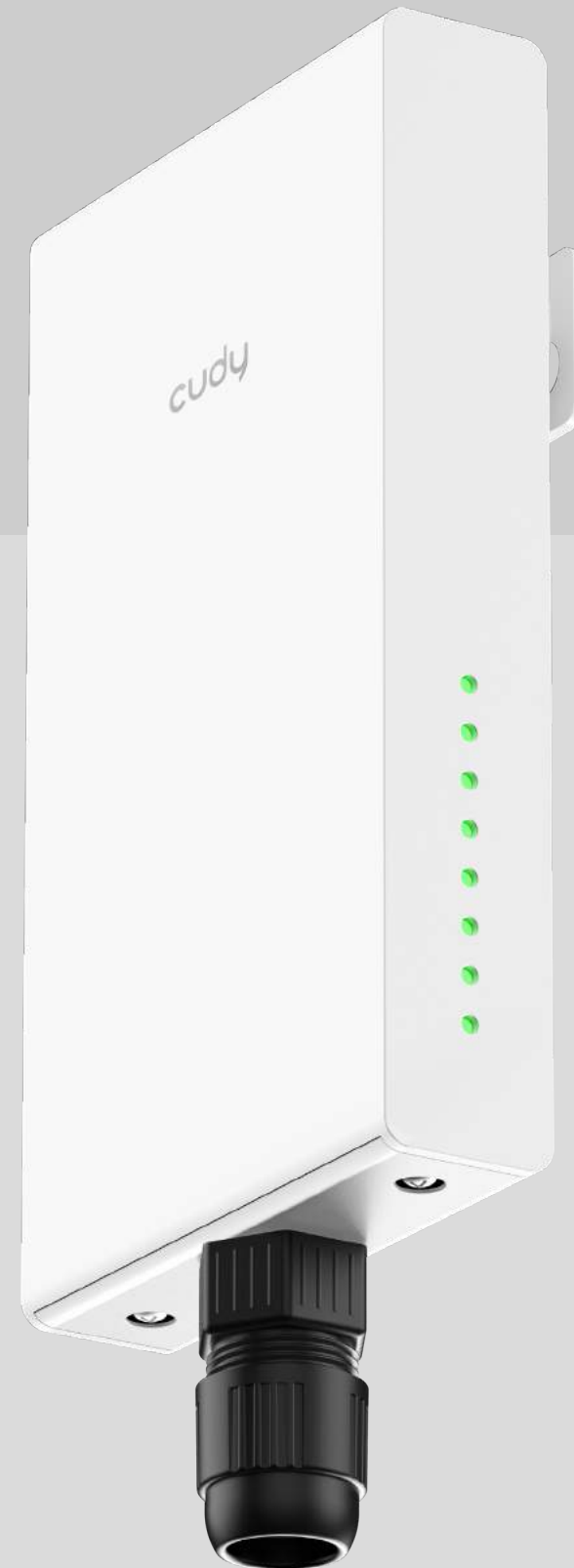


Model: P2 ODU

5G NR SA/NSA

Outdoor Unit

[Datasheet](#)





Super-Fast 5G SA/NSA

5G connection ensuring smoother video streaming, more stable long-distance wireless links, faster data forwarding, and reliable performance even when multiple clients and applications are connected simultaneously.

CA

Carrier Aggregation

Improves stability drastically

4x4 MIMO

Boosts speeds with multiple streams

Powerful Hardware

Dual SIM failover, a powerful 1.3 GHz dual-core CPU, and ample memory ensure stable connectivity, smoother multitasking, and reliable performance for demanding outdoor 5G deployments.

Dual SIM Slots

Dual-Core CPU

128 MB Flash

512 MB RAM

Environmental Durability

Built for harsh outdoor environments with an IP67-rated enclosure, -40–70°C (-40–158°F) operating temperature, and 6 kV surge protection for reliable performance in rain, dust, extreme weather, and unstable power conditions.

IP67
Dust/Waterproof
Water-Dust Proof IP67

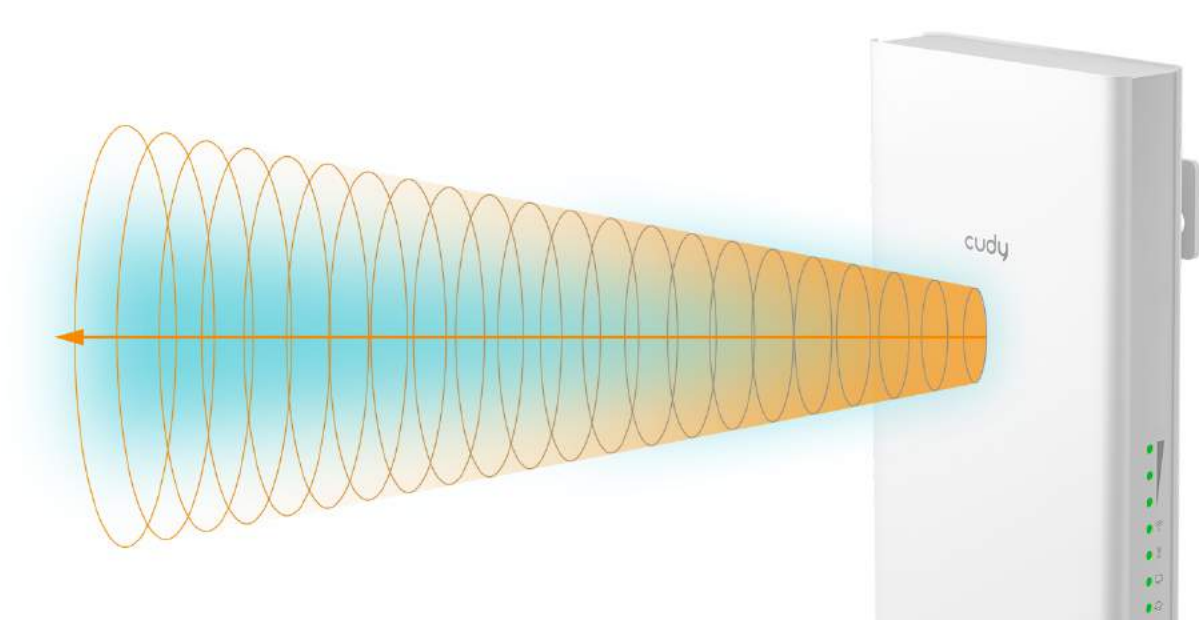
-40/70°C
Ext. Cold/Heat Resistant
Ambient Operating
Temperatures -40 - 70 °C

6 kV
Surge Protection
Surge Protection
Power: DM 6kV, CM 6kV
RJ45: CM 6kV

8 kV
ESD Protection
ESD Protection
Contact 8kV, Air 15kV

High-Gain LTE/5G Antennas

High-gain LTE/5G antennas improve signal reception for faster speeds, stronger stability, and more reliable connections in weak-signal outdoor environments.



Remote Management and Upgrade

Enables seamless integration with ACS platforms for zero-touch provisioning, remote diagnostics, and bulk firmware upgrades, all managed from a centralized network management center.

Remote Firmware Upgrade

Configuration and Monitoring

Behind NAT Configuration

Performance Diagnostics (TR-143)

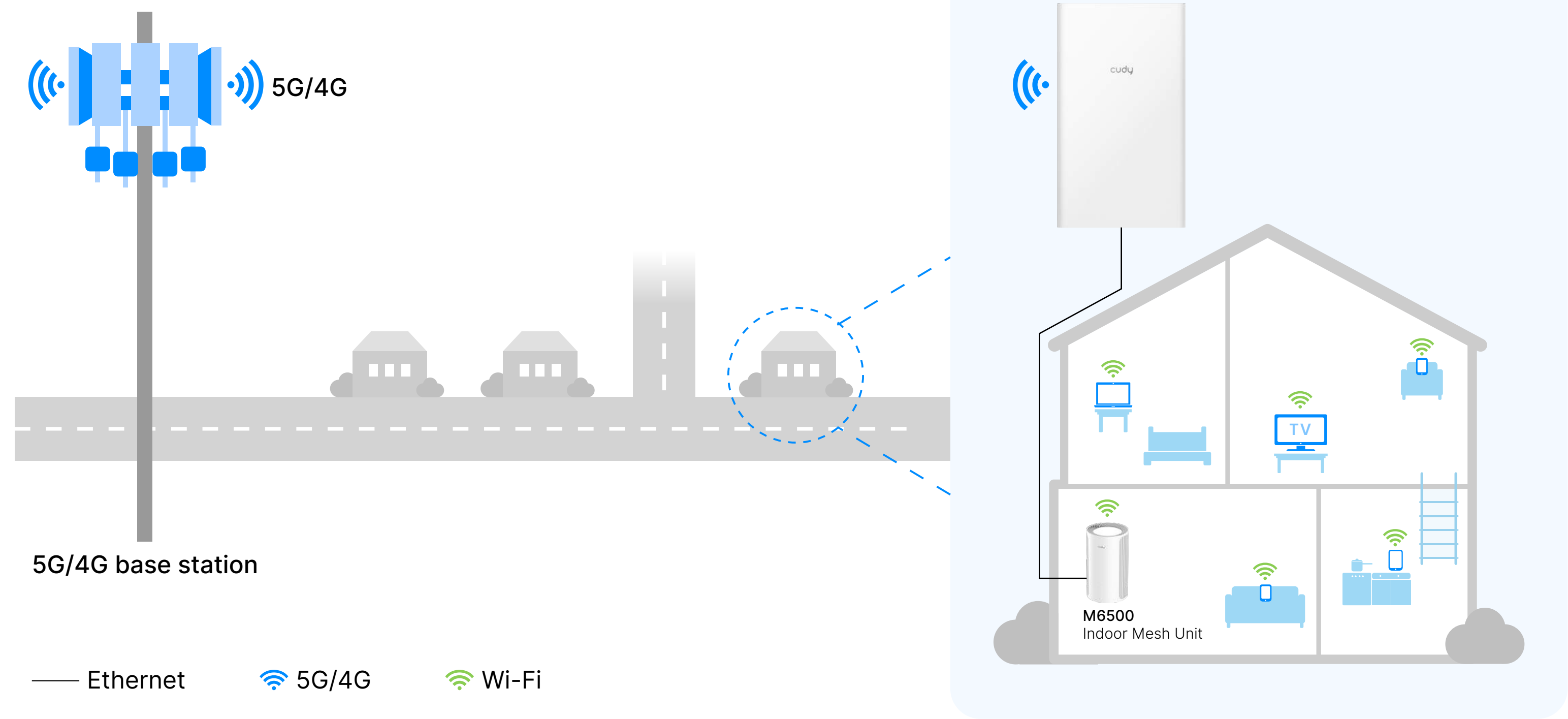
Data Model TR-098/TR181

USP (IoT) TR-369

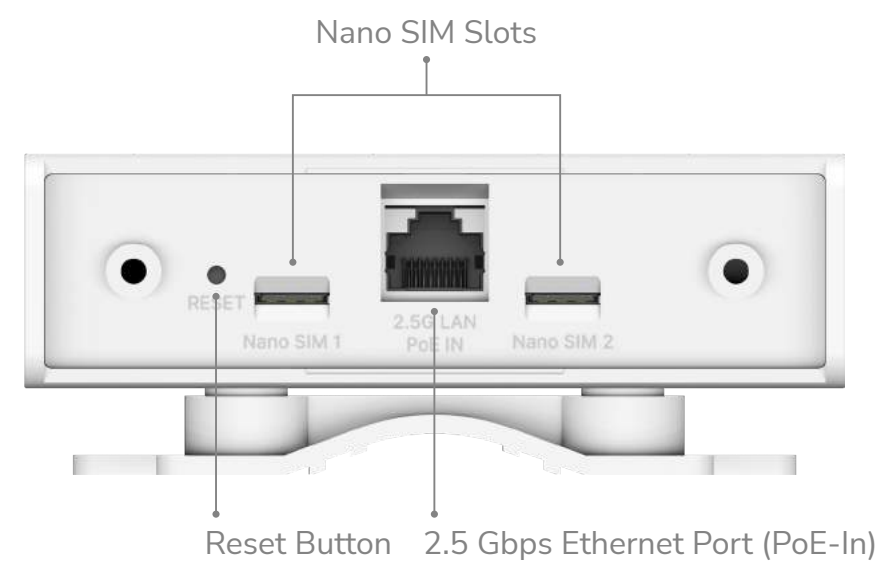
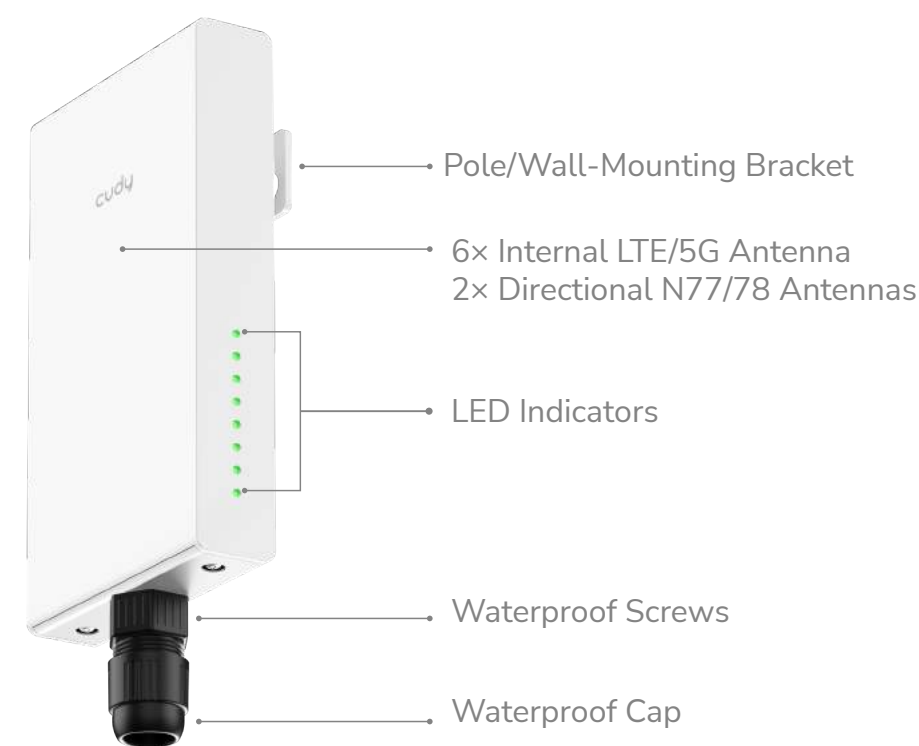
Multi-Level Accounts

Firewall Security

Deployment Diagram



Physicals and Interfaces



Versatile Installations



Desktop



Wallmount



Pole-Mount



Sill-Mount



Highlights

A 5G NR SA/NSA outdoor CPE with a maximum download speed of 2.6 Gbps. Featuring dual SIM slots with optional eSIM and a 2.5G Ethernet port, it is ideal for premium FWA deployments.

- IP67, -40~70°C (-40~158°F), 6kV Surge
- 5G Rel. 15 with Max 2.6 Gbps DL
- 5G/4G Dual Connectivity, 4×4 MIMO
- 1× 2.5 Gbps Ethernet Port (PoE In)
- 2× Nano SIM Slots
- 802.3at PoE
- Cudy App, Cloud Control
- Cudy Mesh Controller
- TR069/TR098/TR111/TR143/TR181
- Pole/Wall/Sill-Mount/Table Stand

Hardware Specs

Model Version	P2 ODU 1.0	
CPU	CPU Details	1.3 GHz Dual-Core, ARM Cortex-A53
Memory/Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	512 MB (4 Gbit) DDR3
Cellular	Cellular Standards	5G Rel. 15
		DL 4G Cat. 12/ UL 4G Cat. 13
	Cellular Antennas	8× Internal (2× Directional N77/78 Antennas)
	SIM Options	2× Nano SIM Slots
		eSIM (Optional for ISP Orders)
	Available Versions	EU
EU Version Cellular	Suitable Region	Europe, Middle East, Africa, Asia-Pacific, Latin America
	Max DL Speed	2.6 Gbps (NSA), 2 Gbps (SA)
	Max UL Speed	650 Mbps (NSA), 1 Gbps (SA)
	Advanced	ENDC 5G+4G Dual Connectivity, DL 4×4, UL 2×2 MIMO
	Cellular Bands	5G Sub 6 GHz: n1/3/5/7/8/20/28/38/40/41/77/78
		LTE-FDD: B1/3/5/7/8/20/28
		LTE-TDD: B34/38/39/40/41
		WCDMA: B1/5/8



Hardware Specs

Wireless	2.4 GHz Wi-Fi Speed	287 Mbps
	2.4 GHz Wi-Fi Streams	1 Spatial Streams
	Wi-Fi Antennas	Internal
	FEM or PA/LNA	2.4 GHz: 1× Internal
	Range Performance	Max: 80 m (262 ft) Tested in open-space environments with minimal interference. Actual WiFi range may vary depending on layout and wall materials. Refer to the Wall Performance specifications for placement suggestions.
	Wall Performance	One wooden walls with thickness < 10 cm (4") One concrete wall with thickness < 10 cm (4")
Interfaces	Note	The wireless will be turned off automatically after first-time configuration. Requires connecting an indoor unit for normal operation.
	Physical Buttons	Reset Button
	2.5G RJ45 Ports	1
	Ethernet Notes	Accepts PoE powering
	LED	Power
		Internet
		Cellular
		LAN
		Wi-Fi
	Power Interfaces	PoE via Ethernet Port

Power	Power Methods		802.3at PoE
	Power Input		PoE: 802.3at
	Power Adapter In the Box		Input: 100-240V~, 50/60Hz
			Output: 802.3at PoE
Reliability	Ingress Protection Rating		IP67
	EMC	IEC/EN 61000-4-2 ESD Level 4: Contact 8kV, Air 15kV IEC/EN 61000-4-5, Level X Surge: Power: DM 6kV, CM 6kV; RJ45: CM 6kV	
	Environment	Operating Temperature: -40°C ~ 70°C (-40°F~158°F) Storage Temperature: -40°C~ 85°C (-40°F~185°F) Operating Humidity: 0% ~ 100% non-condensing Storage Humidity: 10% ~ 95% non-condensing	
Certifications	FCC, CE		
Mechanical	Dimension		10×35×190 mm
			4.33×1.38×7.48 inches
	Installation		Desktop,
			Wall-mount
			Pole-mount
			Sill-mount



Software Specs

Wireless	Wi-Fi Standards	Wi-Fi 6
	Max Wi-Fi Modulation	1024-QAM
	Wi-Fi Efficiency	OFDMA
		BSS Color
	Max Capacity	64
	Recommended Client Upper Limit	10 (Connect Indoor Router or AP for Optimal Experience)
	Max Wi-Fi Channel Width	40 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
General	Operation Modes	Cellular Router
	Cellular APN	Band Select (Band Lock)
		Cellular Mode Select
		Data Roaming
		APN Profile
		Manual APN Profile
		MBN
		MTU Value
	Cellular Mode	5G NSA Only
		5G SA Only
		4G Only
		Auto

Network	QoS	Per-User Rate Limiting
	DHCP	Address Reservation
		DHCP Client List
		Server
	IP Versions	IPv4/IPv6
	IPv6 Protocols	Relay, Dynamic (SLAAC/DHCPv6)
		Static (Fixed IP), Passthrough
		464XLAT, MAP-E, DS-Lite
	TTL Customization	Extend, Spoof, Custom
	IGMP	IGMP Proxy, IGMP Snooping
	Forwarding	Port Forwarding, Port Triggering
		UPnP, DMZ
	Firewall	SPI Firewall, DoS Protection, Block PING
	Application Layer Gateway	IPSec Passthrough
		L2TP Passthrough
		PPTP Passthrough
		FTP Passthrough
TFTP Passthrough		
H323 Passthrough		
SIP Passthrough		
	RTSP Passthrough	



Software Specs

Utilities	VPN Server	WireGuard, OpenVPN, IPsec, Zerotier
		PPTP, L2TP
	VPN Client	WireGuard, OpenVPN, IPsec, Zerotier
		PPTP, L2TP
	DNS Options	DNS over TLS
		Manual DNS
		Rebind Protection
		Override Clients' DNS
	DNS over TLS Providers	Cloudflare
		Google
		Quad9
		Custom
	Wake on LAN	√
	Online Detection	√
Management	All Devices Management	MAC Filter
		IP/MAC Binding
	Per-Devices Management	Internet On/Off
		VPN On/Off
		Online Time Schedule
		Device Rename
	Content Management	Domain Filter
		IP Filter

System	LED Control	√
	Local Control Method	Config Web Page
		App Control
	Remote Control Method	Config Page via HTTPS
		App Control
		TR069/TR098/TR111/TR143/TR181
	Firmware Upgrade	Local Update
		App (Over the Air)
		Online Update
	Diagnostic Tools	Diagnosis
		Ping
		Traceroute
		NSLookup
		System Log
	Languages	English, Bengali, Catalan, Czech, German, Greek, Spanish, French, Hebrew, Croatian, Hungarian, Italian, Japanese, Khmer, Korean, Dutch, Norwegian, Polish, Portuguese, Romanian, Russian, Slovak, Swedish, Thai, Turkish, Ukrainian, Vietnamese, Simplified Chinese, Traditional Chinese,
	Reliability	Timed Reboot
		Backup and Restore



Software Specs

Dashboard	Panel	Internet Status
		Devices Management
		Cellular Status
		SMS Send and Receive
		WAN Status
		LAN Status
		Wi-Fi Status
		VPN Status
		DHCP Server Status
		System Version
Charts	Cellular Speed	
	Internet Speed	