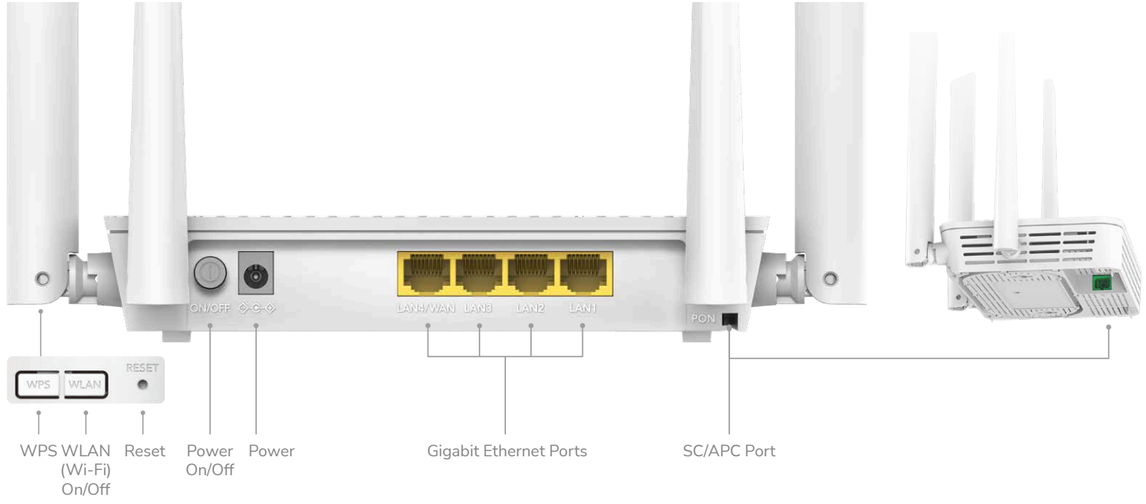
Model: GP3000

AX3000 Wireless Dual-Band Gigabit xPON Router



Datasheet



Broad Wireless Coverage

Four high-gain antennas and Beamforming technology boost the Wi-Fi signal automatically to the direction of the clients.

Four Gigabit Ports

Provides decent wired connectivity, and removes the need to installing extra switch for large premises' wiring scenarios.

IPv6

Supports more secure and advanced IPv6 protocol, enabling ISP to scale up their network high-performance with the latest feautres in efficiency, and compatibility.

Super-Fast Wi-Fi 6 with 160 MHz Channel Width

Enjoy instant file downloads and responsive video playback with the top -notch 160 MHz bandwidth.

Lower Latency for More Devices with OFDMA

Wi-Fi 6 features MU-MIMO and OFDMA to transmit more data for multiple devices at the same time, reducing latency.

QoS

Advanced built-in QoS features allow ISPs to fine-tune the online experience, including latency-sensitive real-time applications.

OMCI

OMCI streamlines the management and reduces procedures in the first-time installation and future maintenance.

Highlights

An xPON Wi-Fi 6 router featuring GPON/EPON dual modes, CWMP, OMCI, IPTV (IGMP Proxy/Bridge/Tag VLAN), and EasyMesh, suitable for FTTH solution deployment.

- Max 2.48 Gbps GPON / 1.25 Gbps EPON
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 1× SC/APC Slot
- 4× Gigabit Ethernet Ports
- OMCI/OAM/TR069/TR098/TR181
- EasyMesh

Package Content

- GP3000
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

CPU	Chipset	RTL9607F
	CPU Details	1 GHz Dual-Core
Memory/Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	512 MB (4 Gbit) DDR3L
xPON	Protocols	GPON (ITU G. 984 standard | Class B+)
		EPON (802.3ah)
	Speed	GPON: 2.488 Gbps Downstream
		/ 1.244 Gbps Upstream
		EPON:
		1.25 Gbps Downstream / Upstream
	Wavelength	TX: 1310 nm
		RX: 1490 nm
	Max Transmission Distance	20 km
Wireless	5 GHz Wi-Fi Speed	2402 Mbps
	2.4 GHz Wi-Fi Speed	574 Mbps
	5 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	4× Fixed
	5 GHz Antenna Gain Max	5dBi
	2.4 GHz Antenna Gain Max	5dBi

Hardware Specs

Wireless	FEM or PA/LNA	5 GHz: 2× External
		2.4 GHz: 2× External
	Beamforming	True
	Range Performance	Max: 200 m (656 ft)
		Indoor WiFi range varies depending on
		the layout and wall materials. See Wall
		Performance spec for placement suggestions.
	Wall Performance	Two wooden walls with thickness < 10 cm (4")
		One concrete wall with thickness < 20 cm (7")
		or two concrete walls with thickness < 10 cm (4")
Interfaces	SC/APC Port	1
	Gigabit RJ45 Ports	4
	Ethernet Notes	1× LAN/WAN port, the rest are LAN ports.
	USB-A 3.0 Ports	Optional for ISP Order
	LED	Power
		PON
		LOS
		Internet
		2.4 GHz Wi-Fi
		5 GHz Wi-Fi
		WPS
		LAN
	Physical Buttons	Power On/Off Button
		Reset Button
		WPS Button
		Wi-Fi On/Off Button
	Power Input	DC Jack
Power	Power Methods	DC
	DC	12V 1.5A
	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC
		Output: 12V 1.5A DC
Reliability	Environment	Operating Temperature: 0 ~ 40 (32 ~104)
		Storage Temperature: -40 ~ 70 (-40 ~ 158)
		Humidity: 10% ~ 90% non-condensing
		Storage Humidity: 5% ~ 95% non-condensing
Certifications	FCC, CE	
Mechanical	Installation	Desktop
		Wall-mount
	Dimension	173×123.8×33 mm
		6.81×4.87×1.3 inches
Ordering Information	Retail Package Dimension	304×268×54 mm
		11.97×10.55×2.13 inches
	Units per Carton	20
	Carton Dimension	55.6×55.5×32.5 cm
		21.89×21.85×12.8 inches

Software Specs

Wireless	Wi-Fi Standards	Wi-Fi 6
	Max Wi-Fi Modulation	1024-QAM
	Wi-Fi Efficiency	OFDMA
		MU-MIMO
		BSS Color
	Max Capacity	256
	Recommended Client Upper Limit	100
	Max Wi-Fi Channel Width	160 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz
	WPS	True
General	Operation Modes	xPON Wi-Fi Router
	Mesh	EasyMesh R2
	Mesh Backhaul	Wireless Backhaul
		Wired Backhaul
	WAN Mode	DHCP
		Static IP
		PPPOE
Network	QoS	4 Queues
		802.1p Classification
		DSCP
		Traffic Shaping

Network	QoS	By MAC
		By IP
		By Port
	DHCP	Address Reservation
		DHCP Client List
		Server
	IP Versions	IPv4/IPv6
	IPv6 Protocols	Dynamic (SLAAC/DHCPv6)
		Static (Fixed IP)
	IPTV/VLAN	Bridge
		Tag VLAN
	TTL Customization	Extend
		Spoof
		Custom
	IGMP	IGMP Proxy
	Forwarding	Port Forwarding
		UPnP
		DMZ
	Firewall	SPI Firewall
Utilities	DNS Options	Manual DNS
	Online Detection	True
Management	All Devices Management	MAC Filter
		IP/MAC Binding

Software Specs

Management	Content Management	Domain Filter
		IP Filter
		Port Filter
System	Local Control Method	Config Web Page
	Remote Control Method	TR069/TR098/TR111/TR143/TR181
		OMCI
		OAM
	Firmware Upgrade	Local Update
	Reliability	Backup and Restore
	Languages	• English
		• Hindi
		• Bengali
		• French
		• Portuguese
		• Russian
		• Urdu
		• Indonesian
		• German
		• Arabic
		• Spanish
		• Simplified Chinese