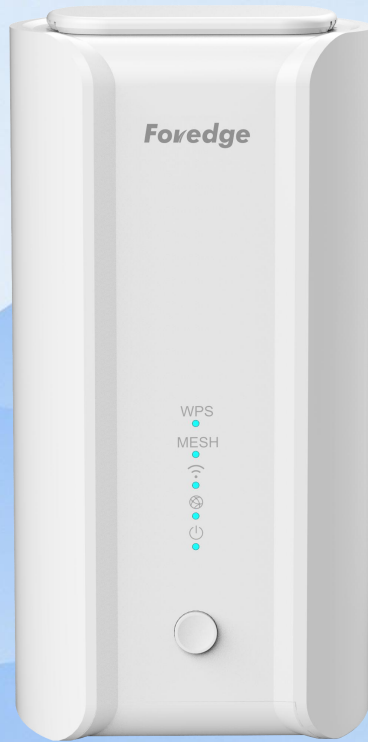




FMR-AX3000-SM

5G CPE

Foreedge

Introduction

The FMR-AX3000-SM is a Wi-Fi6 3000M CPE router. The device features 4 Gigabit Ethernet ports and an integrated cellular modem small wireless access point. It supports 2G, 3G, 4G (LTE), and 5G connections. Wireless support includes the IEEE802.11ax protocol, with a maximum bandwidth of 160 MHz. The overall wireless speed can reach 2976 Mbps, providing users with faster downloads, higher-definition and smooth online viewing experiences, and ultra-low latency online gaming experiences. It also supports backward compatibility with IEEE802.11a/b/g/n/ac devices.

The FMR-AX3000-SM also adopts MU-MIMO wireless signal multiplexing technology, enabling multiple terminals to simultaneously transmit on the same channel, thereby enhancing wireless transmission efficiency and reducing data communication latency. It also supports EasyMesh networking, which is suitable for wireless coverage in multi-bedroom, duplex, large-sized multi-room offices, etc., allowing users to truly break free from the constraints of wired connections and enjoy a wireless networking experience in any corner.

Main features

- 160MHz bandwidth, 3000M Wi-Fi speed,enjoy 4K high-definition video
- Nano SIM is plug-and-play
- MU-MIMO technology enables multiple terminals to transmit simultaneously on the same channel, allowing you to enjoy your favorite content without any network congestion
- OFDMA technology enables multiple user data to be transmitted simultaneously in each frame, significantly enhancing the Wi-Fi transmission efficiency
- Compared with traditional 3000M routers, by adding one more 5GHz antenna and adopting the multi-antenna design, the signal strength is enhanced by 3dBi, effectively solving the coverage dead zones problem of traditional routers
- The equipment is equipped with 3 Ethernet LAN ports, enabling full utilization of each megabit of external network bandwidth
- Visualize local WEB management. The system comes with a quick configuration wizard at the start-up, and it can be configured in just one minute for use
- Remote operation of the cloud platform makes management more convenient and efficient

Parameters

Hardware Characteristics	
Size	112mm × 108mm × 213mm
Installation	Desktop
Protocol	IEEE 802.11a/b/g/n/ac/ax IEEE 802.3 IEEE 802.3u IEEE 802.3x
Port	1 × 10/100M/1000M WAN Port (Auto MDI/MDIX) 3 × 10/100M/1000M LAN Port (Auto MDI/MDIX)
Buttons	WPS/MESH button Reboot/Reset button
LED	5 × Green Led
SIM	1 × Nano-SIM Port
Antenna	4 × 5dBi external (non-detachable) 1 × 5dBi built-in (non-detachable)
Power	DC 12V/1.5A (Outer diameter: 5.5mm, Inner diameter: 2.1mm)
Power Consumption	11W
Cellular Network	NR Sub6 FR2 LTE-FDD LTE-TDD WCDMA EDGE GPRS GSM

Hardware Characteristics	
2.4G Frequency	2412~2472MHz（Channel： 1-13）
5G Frequency	5180~5350MHz（Channel： 36-64） 5490MHz~5730MHz（Channel： 100-144） 5735MHz~5835MHz（Channel： 149-165）
Wi-Fi Speed	2.4G： 574Mbps 5G： 2402Mbps
MIMO	2.4G： 2×2 MU-MIMO 5G： 2×2 MU-MIMO
Transmission Power	2.4G： 22dBm±2dB 5G： 23dBm±2dB
Operating Environment	
Electrostatic Standard	Air 8kV, Contact 6kV
Port lightning Protection	±2kV
Operating Temperature	-10℃～50℃
Operating Humidity	10%-90%RH (non-considering)
Storage Temperature	-40℃～70℃
Storage Humidity	10%～90%RH(non-considering)

Software Functions	
Working modes	Router Bridge WDS
Status Monitoring	Equipment information(model, firmware version, SN 、 IP、 MAC、 Uptime、 CPU usage、 memory usage) Network monitoring (uplink rates、 downlink rates, connection duration)
Network Settings	IPv4 IPv6 PPPoE for WAN Static IP for WAN DHCP for WAN Hardware acceleration for forwarding
Wi-Fi Settings	Dual-band integration Simultaneous operation of 8 SSIDs Wireless black and white list Guest network WPS Isolation of SSIDs TWT
Easy Mesh	Support automatic election of the master node 3 levels of device cascading
Terminal Monitoring	Monitoring of IP、 MAC 、 Online time for terminals Speed limits for for terminals
Security Settings	Parental control Internet access filtering Application access filtering Custom addition of application feature library Port forwarding DMZ Dos attack protection

Software Functions	
Application Settings	Speed limits IP and MAC PPTP/L2TP VPN UPNP DDNS
Equipment Upgrade	Local Firmware Upgrade Online Firmware Upgrade
System Management	NTP System logs Kernel logs Configuration backup Reset Restart
Equipment Upgrade	Local firmware Upgrade Online firmware Upgrade
System Management	NTP System logs Kernel logs Configuration backup Reset Restart

Order Information

Model	Description
FMR-AX3000-SM	WIFI6 dual-band CPE router 4GE ports and Nano-SIM Simultaneous 4G and wired network Working Wireless speed can reach 2976 Mbps

Region	Band
EMEA	5G SA&NSA: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N77/N78/N79 LTE-FDD:B1/B3/B5/B7/B8/B18/B19/B20/B28/B32 LTE-TDD:B34/B38/B39/B40/B41/B42 WCDMA:B1/B5/B8
North America	5G SA&NSA: N2/N5/N7/N12/N13/N14/N25/N38/N41/N48/N66/N71/ N77/N78 LTE-FDD:B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B66/B71 LTE-TDD:B38/B41/B42/B43/B48 WCDMA:B2/B4/B5