



“For a better connected world”

AX1800 Dual Band Mesh Router

Faster, multiple connections, and smart



SM6631-GWD6HM-R20

Device Parameters

Dimensions (L x W x H)	205mm x 155mm x 33mm (without external antenna and pads)
Weight	387g
Operating temperature	0°C - 40°C
Storage temperature	-40°C - 70°C
Operating humidity	10% to 95% (non-condensing)
Storage humidity	10% to 95% (non-condensing)
Power adapter input	100-240V AC, 50-60Hz
System power supply	12V DC, 1A
Maximum power consumption	12 W
Interface	1xGE WAN + 3xGE LAN
Antenna	4 for each 5dBi external
Indicators	POWER/WiFi/MESH/LAN1/LAN2/LAN3/WAN
Installation mode	On the desk, or on the wall
Compliance certification	CE/WiFi
Flash	128MB
RAM	256MB

Product Function

Standards

- 5GHz: IEEE 802.11ax/ac/n/a
- 2.4GHz: IEEE 802.11ax/n/b/g
- MESH supported

MIMO

- MU-MIMO
- Beamforming

Bandwidth

- 5GHz: 20, 20/40, 20/40/80MHz
- 2.4GHz: 20, 40MHz

Transmission rate

- 5GHz: 1201Mbps
- 2.4GHz: 574Mbps

Operation channels

- 5GHz: 34, 36, 38, 40, 42, 44, 46, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165
- 5GHz DFS: 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140
- 2.4GHz: 1-13

Transmission power for 2.4GHz

- -87dBm @ 802.11b
- -73dBm @ 802.11g
- -68dBm @ 802.11n 20MHz MCS7
- -64dBm @ 802.11n 40MHz MCS7
- -22dBm @ 802.11ax EVM-15 CCK-1M
- -20dBm @ 802.11ax EVM-30 OFDM-54M
- -20dBm @ 802.11ax EVM-30 40MHz MCS7
- -18dBm @ 802.11ax EVM-41 40MHz MCS11

Transmission power for 5GHz

- -76dBm @ 802.11a
- -72dBm @ 802.11n 20MHz MCS7
- -69dBm @ 802.11n 40MHz MCS7
- -70dBm @ 802.11ac 20MHz MCS8
- -65dBm @ 802.11ac 40MHz MCS9
- -61dBm @ 802.11ac 80MHz MCS9
- -22dBm @ 802.11ax EVM-15 OFDM-6M
- -20dBm @ 802.11ax EVM-30 OFDM-54M
- -20dBm @ 802.11ax EVM-30 40MHz MCS7
- -19dBm @ 802.11ax EVM-32 VHT80 MCS9
- -18dBm @ 802.11ax EVM-41 HE80-MCS11

WiFi Encryption

- WPA, WPA2 and WPA3 with AES

Working mode

- Router
- Access point

Layer 3 function

- Port forwarding
- PPPoE/Static IP/DHCP
- NAT/NAPT
- ALG, UPnP
- DDNS/DNS server/DNS client
- IPv6/IPv4 dual stack
- Static/Default routes

Security

- Firewall
- Filtering based on MAC/IP/URL addresses
- Access control