



MSG2200-UP series enterprise gateway

The MSG2200-UP series devices are the third-generation 1000 Mbit/s data-type enterprise gateways launched by Raisecom. This series is used for bandwidth access of Small and Medium-sized Enterprises (SMEs) and industry branches, Class Access to ICTs in campus networks, and so on. It supports cloud access and VPN tunnels. This series adopts a dual-core CPU, integrates data, security, wireless, and other functions into one, providing users with a comprehensive network access solution for gigabit broadband and smart education.

The MSG2200-UP series provides EPON/GPON adaptive uplink interfaces on the WAN side, with optional USB external 4G link for backup, and provides multiple interface forms, such as full Gigabit Ethernet and Wi-Fi on the LAN side.

The MSG2200-UP series supports secure access, such as access control, IPsec VPN, L2TP VPN, and GRE VPN, ensuring the security of service access for enterprise users. It can also be accessed to the platform. After a VxLAN tunnel is established, the MSG2200-UP series can serve as a cloud access terminal for the SDN controller and vCPE.

In addition, you can flexibly deploy multiple services on the same platform for centralized management to reduce OPEX.



MSG2200-UP



MSG2200-UP-8E

Highlights >>

Performance and reliability

- New-generation dual-core CPU, 900 MHz, high performance, and low power consumption
- Metal shell, anti-lightning and anti-interference, good durability
- Fanless design, no noise, and high reliability

Interface type

- EPON/GPON adaptive uplink mode on the WAN side, with optional USB external 4G uplink for backup
- 1000 Mbit/s Ethernet interfaces on the LAN side, among which one can be configured as an uplink interface
- IEEE 802.11b/g/n/ac WLAN, dual frequency 2.4 GHz/5 GHz, 4 × 4 MIMO, 4 external 5dBi antennas

Route access

- IPv4/IPv6 dual stack and DS-lite tunnel
- Routing, bridging, DHCP, and UPNP
- NAT/NAPT, one-to-one address mapping, and port mapping
- VLAN management and MAC management, which facilitate service and interface planning
- Static route, policy routing, and route backup

International Headquarters

East-11, Raisecom Building, No.10 Xibeiwang East Road,
Haidian District, Beijing. 100094, China
Tel: +86 10 8288 3305
Fax: +86 10 8288 3056
www.raisecom.com

U.S.A. Headquarters

6380 North Eldridge Parkway Houston Texas 77041, USA
Tel: +1 888 816 4808 ext 201
Fax: +1 727 547 9124
Email: ussales@raisecomusa.com

Raisecom Technology Co., Ltd.

Copyright@1999-2020
All rights reserved
Technical information is subjected to change without notice



- IGMPv1 and v2: IGMP Snooping and IGMP Proxy
- Abundant and flexible QoS scheduling mechanisms, such as SP and WRR
- Multiple VPNs, such as IPSec, L2TP, and GRE
- VxLAN. Support overlay network setup with SDN controller and vCPE.

VPN

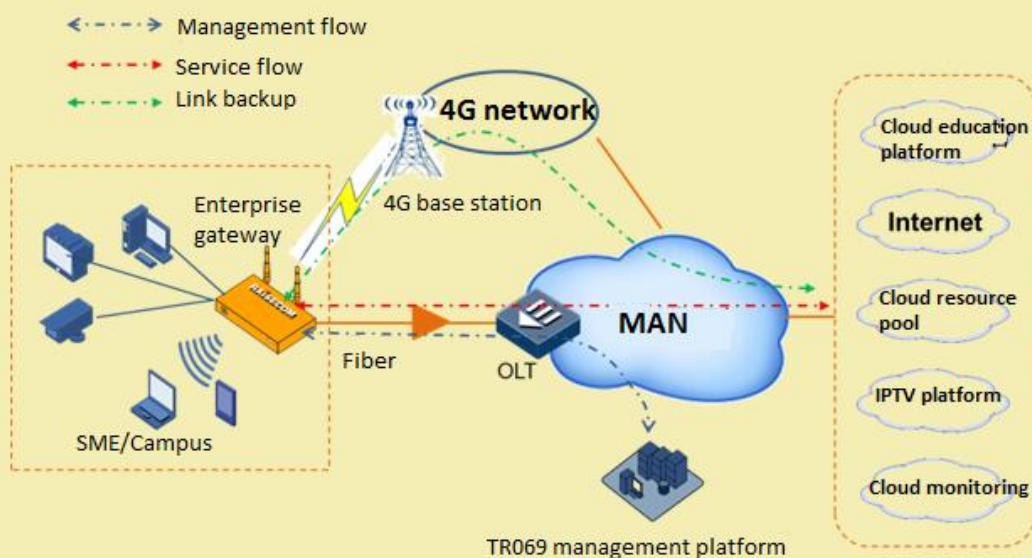
Security

- Firewall and access control strategy
- Anti-DDoS, ARP attack prevention, and interface scanning prevention
- MAC address, IP address, and URL filtering
- Multiple user authentication modes, such as Radius/LDAP/TACACS+
- Web page push
- Multiple Portal protocols

Management

- TR-069, Web, SNMP, Netconf, and other management modes
- Zero-configuration and automatic service provisioning
- NAT to implement connection establishment between public network devices and private network devices on the NMS

Application scenarios >>



Multi-service access of SMEs

The MSG2200-UP series integrates data, video, and Wi-Fi into one, which can realize the integration of Internet, IPTV, and video monitoring services on the same platform.

- Provide EPON/GPON adaptive uplink interfaces on the WAN side.
- Provide 4–8 GE interfaces and 1 dual-frequency Wi-Fi.
- Support Web, SNMP, TR069, and Netconf, which can realize on-site zero-configuration, convenient for service provisioning and operation & maintenance.

International Headquarters

East-11, Raisecom Building, No.10 Xibeiwang East Road,
Haidian District, Beijing. 100094, China
Tel: +86 10 8288 3305
Fax: +86 10 8288 3056
www.raisecom.com

U.S.A. Headquarters

6380 North Eldridge Parkway Houston Texas 77041, USA
Tel: +1 888 816 4808 ext 201
Fax: +1 727 547 9124
Email: ussales@raisecomusa.com

Raisecom Technology Co., Ltd.

Copyright@1999-2020
All rights reserved
Technical information is subjected
to change without notice



Key features >>

Parameter	MSG2200-UP	MSG2200-UP-8E
WAN side	1 EPON/GPON auto-negotiation interface	1 EPON/GPON auto-negotiation interface
LAN side	4 GE	8 GE
USB interface	USB2.0/3.0 high-speed interface, optional USB external 4G NIC	USB2.0/3.0 high-speed interface, optional USB external 4G NIC
WLAN	IEEE 802.1b/g/n/ac (4x4 MIMO), four 5dBi external antennas	IEEE 802.1b/g/n/ac (4x4 MIMO), four 5dBi external antennas
Weight	1.2 Kg	1.3 Kg
Dimensions (Length x Width x Height) (mm)	260 x 130 x 43 (metal shell)	260 x 130 x 43 (metal shell)
Power supply mode	+12 VDC power adapter	+12 VDC power adapter
Maximum power consumption	≤ 21 W	≤22 W
Operating environment	<ul style="list-style-type: none"> ● Operating temperature: -5 to 55 °C ● Operating humidity: 10%–90% (non-condensing) 	
Storage environment	<ul style="list-style-type: none"> ● Storage temperature: -25 to 70°C ● Storage humidity: 10%–90% (non-condensing) 	
Dust-proof level	IP20	
Access	<ul style="list-style-type: none"> ● Routing, bridging, DHCP, and UPNP ● VLAN management, Access and Trunk modes ● NAT/NAPT, one-to-one address mapping, and port mapping ● Optional 4G uplink backup 	
Multicast	IGMPv1 and v2: IGMP Snooping and IGMP Proxy	
Rate limiting	<ul style="list-style-type: none"> ● Rate limiting based on interface, VLAN, and IP address ● SP and WRR 	
Routing	Static route, policy routing, and route backup	
IPv4/IPv6	IPv4/IPv6 dual stack, route and data forwarding, and DS-lite tunnel	
VPN	IPSec VPN, L2TP VPN, GRE VPN, VxLAN VPN, and PKI management	
QoS	Priority mapping, congestion management, and priority management	

International Headquarters

East-11, Raisecom Building, No.10 Xibeiwang East Road,
Haidian District, Beijing. 100094, China
Tel: +86 10 8288 3305
Fax: +86 10 8288 3056
www.raisecom.com

U.S.A. Headquarters

6380 North Eldridge Parkway Houston Texas 77041, USA
Tel: +1 888 816 4808 ext 201
Fax: +1 727 547 9124
Email: ussales@raisecomusa.com

Raisecom Technology Co., Ltd.

Copyright@1999-2020
All rights reserved
Technical information is subjected to change without notice



Security	<ul style="list-style-type: none">● Firewall, website filtering, MAC address filtering, and access control● ARP attack prevention and anti-DDoS attack● Web authentication, RADIUS authentication, and illegal IP detection
Maintenance and management	TR069, Web, SNMP, and Netconf

Ordering information >>

Model	Description
MSG2200-UP	1000 Mbit/s enterprise gateway <ul style="list-style-type: none">● WAN interface: 1 EPON/GPON auto-negotiation optical interface● LAN interface: 4 GE interfaces; 1 dual-frequency Wi-Fi 2.4 GHz /5 GHz, 4x4MIMO; 1 USB2.0/3.0 interface; 4 external omnidirectional antennas● Power: +12 VDC power adapter
MSG2200-UP-8E	1000 Mbit/s enterprise gateway <ul style="list-style-type: none">● WAN interface: 1 EPON/GPON auto-negotiation optical interface● LAN interface: 8 GE interfaces; 1 dual-frequency Wi-Fi 2.4 GHz /5 GHz, 4x4MIMO; 1 USB2.0/3.0 interface; 4 external omnidirectional antennas● Power: +12 VDC power adapter

International Headquarters

East-11, Raisecom Building, No.10 Xibeiwang East Road,
Haidian District, Beijing. 100094, China
Tel: +86 10 8288 3305
Fax: +86 10 8288 3056
www.raisecom.com

U.S.A. Headquarters

6380 North Eldridge Parkway Houston Texas 77041, USA
Tel: +1 888 816 4808 ext 201
Fax: +1 727 547 9124
Email: ussales@raisecomusa.com

Raisecom Technology Co., Ltd.

Copyright@1999-2020
All rights reserved
Technical information is subjected
to change without notice