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MSG2600E-XES-8E8V-WS3

The MSG2600E-XES-8E8V-WS3 is the third-generation integrated 10G EPON enterprise gateway launched by Raisecom, which meets the needs of SMEs and industry branches for speeding up bandwidth and improving performance. It supports cloud access and VPN tunnels, adopts a 4-core CPU and an accelerator, and integrates data, voice, security, wireless and other functions into one, providing users with a comprehensive network access solution for gigabit broadband and smart governments and enterprises.

The MSG2600E-XES-8E8V-WS3 provides 10 Gbit/s EPON uplink interfaces on the WAN side, with optional USB external 4G link for backup, and provides multiple interface forms, such as full Gigabit Ethernet, FXS, and dual-frequency Wi-Fi on the LAN side.

The MSG2600E-XES-8E8V-WS3 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 MSG2600E-XES-8E8V-WS3 can serve as a cloud access terminal for SDN controller and vCPE.

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

MSG2600E-XES-8E8V-WS3

Highlights >>

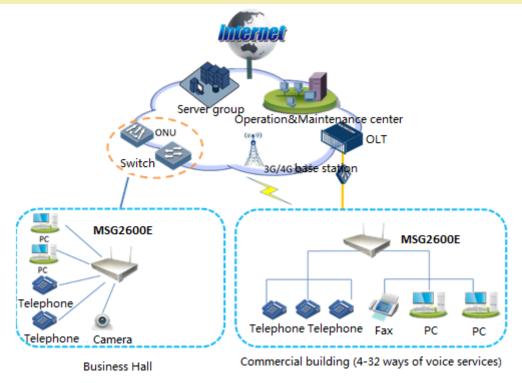|	
Performance and reliability	● New-generation 4-core CPU, 1.2 GHz, high performance, and low power consumption
	● Metal shell, anti-lightning and anti-interference, good durability
	● Fanless design, no noise, and high reliability
Interface type	● 10G EPON uplink mode on the WAN side, with optional USB external 4G uplink for backup
	● GE interfaces on the LAN side, among which one can be configured as an uplink interface
	● The voice interface can be connected to various devices, such as telephones, fax machines, and POS.
	● IEEE 802.11b/g/n/ac WLAN, dual frequency 2.4 GHz/5 GHz, 2 × 2 MIMO, 2 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, facilitating service and interface planning
	● Static route, policy routing, and route backup
	● IGMPv1 and v2: IGMP Snooping and IGMP Proxy
	● Abundant and flexible QoS scheduling mechanisms, such as SP and WRR

VPN	• Multiple VPNs, such as IPSec, L2TP, and GRE • VxLAN. Support overlay network setup with SDN controller and vCPE.
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
Voice	• SIP, H.248, and IMS-SIP • G.711a/u, G.723, G.726, G.729 codec auto-negotiation • Supplementary services, such as call hold, call waiting, call forwarding, and three-way calling
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 MSG2600E-XES-8E8V-WS3 10GEPON integrates data, voice and video into one, which can realize the integration of Internet, VoIP, and IPTV services on the same platform.

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- Provide 10G EPON uplink interfaces on the WAN side.
- Provide 8 GE interfaces, 8 voice interfaces, and 1 dual-frequency Wi-Fi on the LAN side.
- Support Web, SNMP, TR069, and Netconf, which can realize on-site zero-configuration, convenient for service provisioning and operation & maintenance.

Key features >>

Parameter	MSG2600E-XES-8E8V-WS3
WAN side	One 10G EPON auto-negotiation interface
LAN side	8 GE
Voice interface	8 FXS voice interfaces, in form of RJ-11
USB interface	USB2.0/3.0 high-speed interface, optional USB external 4G NIC
WLAN	IEEE 802.1b/g/n/ac (2x2 MIMO), two 5dBi external antennas (up to 30 connections recommended)
Weight	1.5 Kg
Dimensions	(Length x Width x Height (mm)): 320 x 200 x 43 (metal shell)
Power supply mode	220 VAC
Maximum power consumption	≤ 30 W
Operating environment	• Operating temperature: -5 to 55 ºC • Operating humidity: 10%–90% (non-condensing)
Storage environment	• Storage temperature: -25 to 70ºC • Storage humidity: 10%–90% (non-condensing)
Dust-proof level	IP20
Access	• 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	• Rate limiting based on interface, VLAN, and IP address • SP and WRR
Routing	Static route, policy routing, and route backup

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Voice	- SIP, H.248, and IMS-SIP - G.711a/u, G.723, G.726, and G.729 voice codec - T.30/T.38 fax, three-way calling, Do Not Disturb, and call statistics
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, CAR, traffic shaping, congestion management, and priority management
Security	- 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
MSG2600E-XES-8E8V-WS3	10G EPON enterprise gateway - WAN interface: one 10 Gbit/s EPON optical interface - LAN interface: 8 GE interfaces; 8 voice interfaces; 1 dual-frequency Wi-Fi 2.4 GHz/5 GHz; 1 USB2.0/3.0 interface; 2 external omnidirectional antennas - Power: 220 VAC power supply