RAISECOM

Raisecom Technology Co., Ltd

MSG 300 series

Raisecom MSG300 series, mainly providing Voice over IP (VoIP) or Fax over IP (FoIP) services, are the new-generation small-capacity Integrated Access Devices (IADs). They can provide low-density commercial buildings or small enterprises with integrated access services of voice and data.

Introduction >>

The MSG300 series are divided into MSG310 series (plastic shell) and MSG320 series (metallic shell). The MSG300 series can provide 4, 8, 16, 24, or 32 voice interfaces, as required by the number and density of users. The MSG300 series provide 1 GE uplink interface or 1 Combo uplink interface (provided by the MSG320 series), 2 FE downlink interfaces (provided by the MSG310 series), and 3 FE downlink interfaces and 1 GE downlink interface (provided by the MSG320 series) besides the corresponding downlink voice interfaces, thus applicable to various access scenarios. The MSG320 series (16/24/32) with multiple voice interfaces can adopt DC power supply, which greatly expands their application scenarios and meets different requirements on voice services.
Appearances of the MSG300 series are listed below:

MSG310-4V

MSG310-8V

MSG320-4V

MSG320-8V-AC

MSG320-GEC-16V-AC

MSG320-GEC-24V-AC
MSG320-GEC-32V-AC

Specifications >>

Parameter	4 voice interfaces	8 voice interfaces	4 voice interfaces	8 voice interfaces
Model	MSG310-4V	MSG310-8V	MSG320-4V MSG320-GEC-4V	MSG320-8V-AC MSG320-GEC-8V-AC
Dimension (Length × Width × Height)	198 mm × 163 mm × 35mm (plastic shell)		260 mm x 130 mm x 43.6 mm (metallic shell)	
WAN side	1 GE interface (100/1000) RJ-45		One GE electrical interface or one 1000 Mbit/s Combo interface (100/1000 Mbit/s, auto-negotiation	
LAN side	2 FE (10/100) interfaces, RJ-45		3 FE (10/100) + 1(100/1000) GE interfaces	
Voice interface	4 FXS voice interfaces (RJ11)	8 FXS voice interfaces (RJ11)	4 FXS voice interfaces (RJ11)	8 FXS voice interfaces (RJ11)

Parameter	16 voice interfaces	24 voice interfaces	32 voice interfaces
Model	MSG320-16V-AC MSG320-GEC-16V-AC MSG320-GEC-16V-DC	MSG320-24V-AC MSG320-GEC-24V-AC MSG320-GEC-24V-DC	MSG320-32V-AC MSG320-GEC-32V-AC MSG320-GEC-32V-DC
Dimension (Length × Width × Height)	440 × 220 × 43.6 (metallic shell)		
WAN side	One GE electrical interface or one 1000 Mbit/s Combo interface (100/1000 Mbit/s, auto-negotiation		
LAN side	3 FE (10/100) + 1(100/1000) GE interfaces	3 FE (10/100) + 1(100/1000) GE interfaces	3 FE (10/100) + 1(100/1000) GE interfaces
Voice interface	16 FXS voice interfaces (RJ11)	24 FXS, 2 SCSI50 interfaces	32 FXS 2 SCSI50 interfaces

Features >>

The MSG300 series support basic services such as VoIP, supplementary services, and intelligent services. They provide downlink interfaces which can connect data users to carry out data services. The IADs, featuring QoS, implement voice services forwarding first by cooperating with devices in the access layer and core layer, thus ensuring the quality of voice carrier to the greatest extent and the QoS of point-to-point voice services.
The IADs, developed based on the original MSG platform, solve the problem of manual batch configuration. They adopt the plug-and-play zero-configuration mode, skipping the process of manual configuration, thus implementing swift number allocation. Meanwhile, the MSG300 series support multiple management modes such as TR069, SNMP, and WEB. You can integrate the widespread and multiple IADs into one platform for online upgrade, configurations, fault management, and performance management.

Design and interfaces

- The MSG310 series adopt the plastic shell, which are small in size. You can install it flatwise or hang it through holes.

- The MSG320 series adopt the metallic shell. Featuring sound heat dissipation and electromagnetic shielding, they can meet the high-reliability requirements of users.

- Flexible uplink mode: support the 1000 Mbit/s electrical interface or 1000 Mbit/s Combo interface.

- The 1000 Mbit/s Ethernet interface at the LAN side can be configured as a cascade interface or an uplink interface.

Services and protocols

- Provide 4 to 32 voice interfaces (RJ11) for connecting devices such as telephones, faxes, and POSs, which enriching types of voice access and expanding service scope.

- Support SIP, IMS-SIP, H.248, and MGCP.

- Support NAT.

- Support G.711a/u, G.723, G.726, and G.729 which are negotiable.

- For voice services, the MSG300 series implement services, such as call hold, call waiting, call forwarding, three-way calling, and hotline, forming a powerful IP integrated solution and providing users with more voice services.

- For Layer 2 switching, the MSG300 series support bridging, 802.1Q VLAN tagging, Access and Trunk interfaces, and 802.1p priority tagging.

Management and maintenance

Support multiple management modes such as TR069, SNMP, and Web, meeting different OAM requirements.

Power, Physical, and Environmental Specifications >>

Model	MSG310-4V	MSG310-8V
Weight	0.8 kg	
Power supply	12 V, 1A power adapter	12 V, 1.5 A power adapter
Maximum power consumption	≤ 8 W	≤ 12 W
Operating environment	• Operating temperature: 0–45ºC • Operating humidity: 10%–90% (non-condensing)	
Storage environment	• Storage temperature: -25 to 70ºC • Storage humidity: 10%–90% (non-condensing)	
Dustproof level	IP 20	

Model	MSG320-4V MSG320-GEC-4V	MSG320-8V-AC MSG320-GEC-8V-AC	MSG320-16V-AC MSG320-GEC-16V-AC MSG320-GEC-16V-DC	MSG320-24V-AC MSG320-GEC-24V-AC MSG320-GEC-24V-DC	MSG320-32V-AC MSG320-GEC-32V-AC MSG320-GEC-32V-DC
Weight	0.6 kg	1.8 kg	2.2 kg	2.4 kg	2.5 kg
Power supply	12 V power adapter	220 VAC	• 220 VAC • 48 VDC	• 220 VAC • 48 VDC	• 220 VAC • 48 VDC
Maximum power consumption	≤ 18 W	≤ 30 W	≤ 40 W	≤ 40 W	≤ 40 W
Operating environment	• Operating temperature: -5 to 55ºC • Operating humidity: 10%–90% (non-condensing)				
Storage environment	• Storage temperature: -25 to 70ºC • Storage humidity: 10%–90% (non-condensing)				
Dustproof level	IP 20				

Ordering Information >>

Model	Description
MSG310-4V	• WAN interface: 1 GE electrical interface • LAN interface: 2 FE, 4 POTS interfaces • Require a 12 V/1 A power adapter.
MSG310-8V	• WAN interface: 1 GE electrical interface • LAN interface: 2 FE, 8 POTS interfaces • Require a 12 V/1.5 A power adapter.
MSG320-4V	• WAN interface: 1 GE electrical interface • LAN interface: 3 FE + 1 GE, 4 POTS interfaces • Require a 12 V/1.5 A power adapter.
MSG320-GEC-4V	• WAN interface: one 1000 Mbit/s Ethernet Combo interface • LAN interface: 3 FE + 1 GE, 4 POTS interfaces • Require a 12 V/1.5 A power adapter.
MSG320-8V-AC	• WAN interface: 1 GE electrical interface • LAN interface: 3 FE + 1 GE, 8 POTS interfaces • 220 VAC (100–240 VAC) power supply
MSG320-GEC-8V-AC	• WAN interface: one 1000 Mbit/s Ethernet Combo interface • LAN interface: 3 FE + 1 GE, 8 POTS interfaces • 220 VAC (100–240 VAC) power supply
MSG320-16V-AC	• WAN interface: 1 GE electrical interface • LAN interface: 3 FE + 1 GE, 16 POTS interfaces • 220 VAC (100–240 VAC)
MSG320-GEC-16V-AC	• WAN interface: one 1000 Mbit/s Ethernet Combo interface • LAN interface: 3 FE + 1 GE, 16 POTS interfaces • 220 VAC (100–240 VAC) power supply
MSG320-GEC-16V-DC	• WAN interface: one 1000 Mbit/s Ethernet Combo interface • LAN interface: 3 FE + 1 GE, 16 POTS interfaces • 48 VDC power supply
MSG320-24V-AC	• WAN interface: 1 GE electrical interface • LAN interface: 3 FE + 1 GE, 24 voice interfaces, purchase the SCSI50 cable additionally. • 220 VAC (100–240 VAC) power supply
MSG320-GEC-24V-AC	• WAN interface: one 1000 Mbit/s Ethernet Combo interface • LAN interface: 3 FE + 1 GE, 24 voice interfaces, purchase the SCSI50 cable additionally. • 220 VAC (100–240 VAC) power supply

MSG320-GEC-24V-DC	• WAN interface: one 1000 Mbit/s Ethernet Combo interface • LAN interface: 3 FE + 1 GE, 24 voice interfaces, purchase the SCSI50 cable additionally. • 48 VDC power supply
MSG320-32V-AC	• WAN interface: 1 GE electrical interface • LAN interface: 3 FE + 1 GE, 32 voice interfaces, purchase the SCSI50 cable additionally. • 220 VAC (100–240 VAC) power supply
MSG320-GEC-32V-AC	• WAN interface: one 1000 Mbit/s Ethernet Combo interface • LAN interface: 3 FE + 1 GE, 32 voice interfaces, purchase the SCSI50 cable additionally. • 220 VAC (100–240 VAC) power supply
MSG320-GEC-32V-DC	• WAN interface: one 1000 Mbit/s Ethernet Combo interface • LAN interface: 3 FE + 1 GE, 32 voice interfaces, purchase the SCSI50 cable additionally. • 48 VDC power supply