GIGAMEDIA
SMART BUILDING SOLUTIONS

GGM GS20048P4S

Smart Switch 48-Port Gigabit PoE + 4-port SFP +

- **48 x Gigabit RJ45**
- **4 x SFP+ ports**
- **Smart manageable**
- **Advanced L2 Features**
- **POE 370W**

GGM GS200 Web-managed Smart Switches series are designed to fit all the technical requirements of modern converged IP networks. Thanks to their large port versatility and their powerful Layer 2 features, GGM GS200 Smart Switches can deal simultaneously with Multimedia streaming, Multicast flux, security and any other services that could need a large bandwidth amount.GGM GS200 Web-managed Smart Switches offer an affordable Gigabit non-blocking network.

Advanced Layer 2 Features
With their very much advanced Layer 2 features, the GGM GS200 Smart Switches can perfectly be integrated into modern IP Networks :

- Full network segmentation management with VLAN
- QoS features to optimize each IP flux
- Strong fault tolerance and redundancy with Spanning Tree technologies
- Loopback detection and quarantine of faulty links
- Cable diagnostics for an efficient network

Strong network security
The GGM GS200 Smart Switches serie comes with the most valuable security technologies to protect your network against intrusion :

- 802.1x RADIUS authentication to ensure a reliable and strong users authentication on the network
- ACL feature to improve the network security and management
- ARP packet inspection to prevent ARP spoofing and networks hacking
- DHCP Snooping feature to prevent the use of rogue DHCP over the network

H/W	
CPU	Microsemi (Vitesse)
DRAM	2G
Flash memory	128M

Port Configuration	
10M/100M/1G RJ45 Port	48
100M/1G SFP Port	0 - (4-Port SFP+ 1G/10G)
Console Port	RJ45
Total Ports	52

POE Function	
IEEE802.3at (PoE+ 30W)	Yes
IEEE802.3af (PoE 15.4W)	Yes
POE ports	48
Available PoE Power	370 W

HW Performance	
Switching Bandwidth	176Gbps
Forwarding Performance	130.944Mpps
MAC Address	32K
Jumbo Frames	9216 Bytes

Environmental	
Operating Temperature	0℃ to 45 ℃
Operating Humidity	10 to 90% RH (non-condensing)
Storage Temperature	-20°C to 70°C
Storage Humidity	10 to 90% RH (non-condensing)

Mechanical	
Dimension (HxWxD)	440mm x290mm x45mm
Weight	5.2kg
FAN Less	No

Power source	
AC Input	100V-240V

Certifications	
	EN61000-4-5 (for RJ45 Port, Surge 6KV)
	CE / Rohs / Reach

L2 Switching	
Spanning Tree	IEEE802.1D (STP)
	IEEE802.1W (RTSP)
	IEEE802.1S (MSTP)
VLAN	802.1Q VLAN
	Port-Based
	VLAN Entries 4K
	Private VLAN
	Voice VLAN
	Guest VLAN
	Q-in-Q
	802.1v Protocol VLAN
	MAC-Based VLAN
	IP Subnet-Based VLAN
IEEE 802.3ad LACP	Dynamic Trunk
	Static Trunk
GARP/GVRP	Yes
IGMP Snooping	Yes
MLD Snooping	Yes

L3 Features	
	DHCP Server

QoS Features	
Class of Service	Port Based
	802.1p
	DSCP
	TCP/UDP Port
Rate Limiting	Ingress
	Egress
Priority Queue Scheduling	WRR
	Strict Proirity
Hardware Queues	8

Security	
ACLs	L2/L3/L4
	IPv6 Support
Port Security (MAC-based)	Yes
IP Source Guard	Yes
Storm Control	Yes
RADIUS Authentication 802.1x	Yes
TACACS+ Authentication	Yes
HTTPs and SSL (Secured Web)	Yes
BPDU Guard	Yes
STP Root Guard	Yes
ARP inspection	Yes
DHCP Snooping	Yes
Loop Protection	Yes

Management	
DHCP	Client
	Relay
	Option 66
	Option 67
	Option 82
Event/Error Log	Syslog
Management Access Filtering	SNMP
	Web UI
	Telnet
	SSH
PoE Management	Scheduling
	Auto-Checking
SNMP (v1, v2c, v3)	Yes
RMON (1, 2, 3 & 9 Groups)	Yes
Software Upgrade	Yes
Configuration Export/Import	Yes
SFP DDM	Yes
Port Mirroring	Yes
Thermal Protection	Yes
LLDP (IEEE802.1AB)	Yes
IPv6 Management	Yes
NTP	Yes

Carrier Ethernet	
ERPS (ITU-T G.8032)	Yes

Device Management System	
Traffic Monitoring	WEB GUI/CLI/SNMP
Cable Diagnostics	Yes

Associated Products	
GGM MSFPSX	1000Base-SX SFP Module, MMF, LC connector, 550m
GGM MSFPLX	1000Base-LX SFP Module, SMF, LC connector, 10km
GGM MSFPFX2	100Base-FX SFP Module, MMF, LC connector, 2km
GGM MSFPFXSM	100Base-FX SFP Module, SMF, LC connector, 40km
GGM MSFP10GBLR	10GBase-LR SFP+ Module, SMF OS2 (1310 nm), LC connector, 10 km
GGM MSFP10GBSR	10GBase-SR SFP+ Module, MMF OM3 (850 nm), LC connector, 300 m
GGM DAC10G1M	10GbE DAC SFP+ Cable - 1M
GGM DAC10G2M	10GbE DAC SFP+ Cable - 2M
GGM DAC10G3M	10GbE DAC SFP+ Cable - 3M
GGM DAC10G7M	10GbE DAC SFP+ Cable - 7M