

## SmartSwitch 28-SFP Port + 12 - RJ45 Gigabit Port + 4-port SFP+

12x Gigabit RJ45

4 x SFP+ ports

28 x SFP ports

Advanced L2 Features

Smart manageable



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	1G
Flash memory	128M
Port Configuration	
10M/100M/1G RJ45 Port	12
100M/1G SFP Port	28 + 4-Port SFP+ 1G/10G
Console Port	RJ45
Total Ports	44
HW Performance	
Switching Bandwidth	160Gbps
Forwarding Performance	238.08Mpps
MAC Address	32K
Jumbo Frames	9216 Bytes
Environmental	
Operating Temperature	0°C to 45 °C
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 x240mm x45mm
Weight	3.5kg
FAN Less	No
Heat Dissipation	235.64 BTU/H
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
IEEE 802.3ad LACP	IP Subnet-Based VLAN
	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 Priority
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
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
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## 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