

# Commercial Ethernet Switches

**L2+ Managed Switch – 4 x 10/100/1000Mbps RJ45 + 12 x 1G/2.5G/10Gbps SFP+ Ports, Rear Facing, Redundant PSU**

## CMS-41210GF-R-RP Commercial L2+ Managed Switch



- ☑ IP Source Guard and Port Security for enhanced access control
- ☑ Non-blocking switch architecture for maximum throughput
- ☑ Layer 2+ fully managed features, including MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACACS+, and ACLs
- ☑ Integrated DHCP Server, DHCP Relay, and DHCP Snooping
- ☑ Support for Voice VLAN
- ☑ Energy Efficient Ethernet (IEEE 802.3az) for reduced power consumption
- ☑ Multicast Support, including IGMP Snooping (v1/v2/v3), IGMP Proxy, IGMP Querier, MVR, and MLD Snooping (v1/v2)

### INTRODUCTION

The DSGio CMS-41210GF-R-RP managed switch is designed for various network deployments, delivering a high-bandwidth, non-blocking switch fabric to facilitate low-latency, high-speed data transmission. With rear-facing ports and redundant power supplies for operational resilience, it provides exceptional throughput and network stability.

It integrates multi-rate uplinks for scalable network expansion and supports link aggregation to enhance throughput. Equipped with IEEE-compliant features, the switch ensures continuous service for connected IP devices. Advanced Layer 2+ management capabilities—including VLAN, QoS, and security features—optimize network segmentation and traffic prioritization.

### PRODUCT SPECIFICATIONS

Interface	
10M/100M/1000Mbps RJ45 Port	4
1G/2.5G/10Gbps SFP+ Slot	12
Console Port for CLI Management	1

System Performance		
Packet Buffer		32Mb
NAND Flash Memory		2Gb
NOR Flash Memory		256Mb
SDRAM Memory (DDR3)		4Gb
MAC Address Table Size		32K
Jumbo Frame		10KB
Switching Capacity		248Gbps
Forwarding Rate (64-byte)		184.512Mpps
L2 Features		
Auto-Negotiation		●
Auto MDI/MDI-X		●
Flow Control (Duplex)	802.3x (Full)	●
	Back-Pressure (Half)	●
Spanning Tree	IEEE 802.1D (STP)	●
	IEEE 802.1w (RSTP)	●
	IEEE 802.1s (MSTP)	●
VLAN	VLAN Group	4K
	Tagged Based	●
	Port-Based	●
	Q-in-Q	●
	Voice VLAN	Voice VLAN with OUI
Link Aggregation	IEEE 802.3ad with LACP	●
	Static Trunk	●
	Max. Static Aggregation Group	8
	Max. Port per Static Agg. Group	8
IGMP Snooping	IGMP Snooping v1/v2/v3	Supports 1024 IGMP Groups
	IGMP Static Multicast Addresses	Supports 1024 Static Multicast Addresses
	IPv6 MLD Snooping	Supports 1024 MLD Groups
	MLD Static Multicast Addresses	Supports 1024 Static Multicast Addresses
	Querier, Immediate Leave	●
Storm Control (Broadcast/Multicast/Unknown Unicast)		●
Loop Protection		●
QoS Features		
Number of Priority Queue		8 Queues/Port
Rate Limiting	Ingress	Yes, 1 KBps/1pps
	Egress	Yes, 1 KBps/1pps
DiffServ (RFC2474 Remarking)		●
Scheduling (WRR, Strict, Hybrid)		●
CoS	IEEE 802.1p	●
	IP ToS Precedence, IP DSCP	●

Security	
Management System User Name/Password Protection	●
User Privilege	Set User Privilege up to 15 Level
Port Security (MAC-based)	●
IEEE 802.1x Port-based Access Control	●
ACL (L2/L3/L4)	●
IP Source Guard	●
RADIUS (Authentication, Authorisation, Accounting)	●
TACACS+	●
HTTP & SSL (Secure Web)	●
SSH v2.0 (Secured Telnet Session)	●
MAC/IP Filter	●
L3 Features	
Static Route	●
Management	
Command Line Interface (CLI)	●
Web Based Management	●
Telnet	●
Access Management Filtering	SNMP/Web/SSH/Telnet
Firmware Upgrade via HTTP	●
Dual Firmware Images	●
Configuration Download / Upload	●
SNMP (v1/v2c/v3)	●
RMON (1, 2, 3 & 9 Groups)	●
DHCP (Server/Client/Relay/Option 82/Snooping)	●
System Event/Error Log	●
TFTP (Trivial File Transfer Protocol)	●
NTP/LLDP	●
Cable Diagnostics	●
IPv6 Configuration	●
Port Mirroring	●
Physical Characteristics	
Dimension (W x H x D)	Redundant PSU: 440 x 44 x 220 mm With PSU Handle & Latch Button: 440 x 44 x 250 mm
LED Indicator	Power, Speed, Link/Act.
Reset Button	1 Reset Button for restoring default
Cooling	Fan Cooling
Enclosure	Metal
Installation	Desktop / Rack Mount
Weight	3.5Kg
System Power Requirements	
System Power Input	12VDC
Max. System Power Consumption	26W

Power Supply Information	
Redundant Power Supply	Input: 100-240 V~, 47-63Hz, 2-1A Max.
	Output: 12VDC/5A
Environment Limits	
Operating Temperature	0 ~ 50°C
Storage Temperature	-20 ~ 80°C
Operating Humidity	Max. 90% RH (Non-condensing)
Storage Humidity	Max. 90% RH (Non-condensing)
Protection and Alarms	
ESD	DC Contact 4KV, Air 8KV
Surge	AC Line to Line 1KV, Line to Ground 2KV
Certifications	
Electromagnetic Emissions (EMC)	CE, FCC, UKCA
Safety	EN62368-1
Standard	
IEEE 802.3 – 10Base-T	●
IEEE 802.3u – 100Base-TX	●
IEEE 802.3ab – 1000Base-T	●
IEEE 802.3z – 1000Base-SX/LX	●
IEEE 802.3ae – 10GBase (SFP+)	●
IEEE 802.3az – Energy Efficient Ethernet (EEE)	●
IEEE 802.3x – Flow Control	●
IEEE 802.3ad – Link Aggregation Control Protocol (LACP)	●
IEEE 802.1Q – VLAN Tagging	●
IEEE 802.1v – Protocol-Based VLAN	●
IEEE 802.1p – Class of Service (CoS)	●
IEEE 802.1D – Spanning Tree Protocol (STP)	●
IEEE 802.1w – Rapid Spanning Tree Protocol (RSTP)	●
IEEE 802.1s – Multiple Spanning Tree Protocol (MSTP)	●
IEEE 802.1AB – Link Layer Discovery Protocol (LLDP)	●
IEEE 802.1X – Port-Based Network Access Control	●

## PACKAGE CONTENTS

- 1 × L2+ Managed Switch
- 1 × Console Cable
- 1 × Rackmount Kit
- 2 × Power Supply Unit
- 2 × Power Cord

## WARRANTY

- Standard 1-Year Limited Warranty, unless otherwise specified by Sales.
- Optional Advance Replacement Warranty is available upon request

## ORDERING INFORMATION

Part Number	Descriptions
<b>CMS-41210GF-R-RP</b>	L2+ Managed Switch with 4 x 10/100/1000Mbps RJ45 Ports and 12 x 1/2.5/10Gbps SFP+ Ports, Rear-Facing, Redundant Hot-swappable PSU
<b>( Optional Network Transceivers )</b>	
<b>CNT-SFP-SX550</b>	1.25Gbps SFP Optical Transceiver, DDM, 1000BASE-SX, 850nm, Duplex LC, up to 550m over MMF (50/125µm) or 300m over MMF (62.5/125µm), Temp: 0°C ~ 70°C
<b>CNT-SFP-LX10</b>	1.25Gbps SFP Optical Transceiver, DDM, 1000BASE-LX, 1310nm, Duplex LC, up to 10Km over SMF (9/125µm), Temp: 0°C ~ 70°C
<b>CNT-SFP-SR300</b>	10Gbps SFP+ Optical Transceiver, 10GBASE-SR, 850nm, Duplex LC, up to 300m over MMF (50/125µm), Temp: 0°C ~ 70°C
<b>CNT-SFP-LR10</b>	10Gbps SFP+ Optical Transceiver, 10GBASE-LR, 1310nm, Duplex LC, up to 10Km over SMF (9/125µm), Temp: 0°C ~ 70°C
<b>( Optional Slim CAT6a Ethernet Patch Cord )</b>	
<b>C6A28-TPE-04BL</b>	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 4ft / 1.2m
<b>C6A28-TPE-05BL</b>	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 5ft / 1.5m
<b>C6A28-TPE-07BL</b>	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 7ft / 2.1m
<b>C6A28-TPE-10BL</b>	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 10ft / 3.0m
<b>C6A28-TPE-15BL</b>	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 15ft / 4.6m

**Note:** Redundant Power Supply Unit is pre-installed in factory and runs automatically. There is no configuration function for PSUs.

## CONTACT INFORMATION

For more information, please visit our website or contact our customer service team:

- **Website:** [www.dsgio.com](http://www.dsgio.com)
- **Email:** [sales.apac@dsgio.com](mailto:sales.apac@dsgio.com)

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