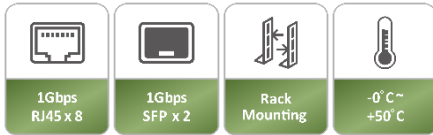


Commercial Ethernet Switches

L2+ Managed Switch – 8 x 10/100/1000Mbps RJ45 + 2 x 100M/1Gbps SFP Ports

CMS-821GF Commercial L2+ Managed Switch



- ☑ Layer 2+ Fully Managed Features, including MSTP, LACP, LLDP & sFlow
- ☑ Multicast Support, including IGMP Snooping (v1/v2/v3), IGMP Proxy, IGMP Querier, MVR, and MLD Snooping (v1/v2)
- ☑ Integrated DHCP Server, DHCP Relay, and DHCP Snooping
- ☑ Support for Voice VLAN
- ☑ IP Source Guard and Port Security
- ☑ 802.1X, RADIUS, TACACS+, and ACLs
- ☑ Energy Efficient Ethernet (IEEE 802.3az) for reduced power consumption

INTRODUCTION

The **DSGio CMS-821GF** L2+ managed switch is designed for small- to medium-scale network deployments, delivering a high-bandwidth, non-blocking switch fabric to enable low-latency, high-speed data transmission. It features 1GbE SFP uplinks for scalable network expansion and support 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—optimise network segmentation and traffic prioritisation. The 13-inch rack-mountable form factor enables seamless integration into standard network and server rack environments.

PRODUCT SPECIFICATIONS

Interface	
10M/100M/1000Mbps RJ45 Ports	8
100M/1Gbps SFP Slots	2
Console Port for CLI Management	1
System Performance	
Packet Buffer	4Mb
MAC Address Table Size	8K
Jumbo Frame	9.6KB
Switching Capacity	20Gbps
Forwarding Rate (64-byte)	14.88Mpps

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	5
	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		●

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	●
Virtual Stacking	●
Physical Characteristics	
Dimension (W x H x D)	Internal PSU: 330 x 44 x 210 mm
Reset Button	N/A
LED	Power, Speed, Link/ACT.
Cooling	Fanless
Enclosure	Metal
Installation	Desktop / Rack Mount
Weight	2.2Kg
System Power Requirements	
System Power Input	12V DC
Max. System Power Consumption	12W
Power Supply Information	
Internal Power Supply	Input: 100-240 VAC
Environment Limits	
Operating Temperature	0 ~ 45°C
Storage Temperature	-20 ~ 80°C
Operating Humidity	5 ~ 90% RH (Non-condensing)
Storage Humidity	5 ~ 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 802.3az – 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
- 1 × Power Cord (Internal PSU)



WARRANTY

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

ORDERING INFORMATION

Part Number	Descriptions
CMS-821GF	L2+ Managed Switch with 8 x 10/100/1000Mbps RJ45 Ports and 2 x 100M/1Gbps SFP Ports, Single Internal PSU
(Optional Network Transceivers)	
CNT-SFP-SX550	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
CNT-SFP-LX10	1.25Gbps SFP Optical Transceiver, DDM, 1000BASE-LX, 1310nm, Duplex LC, up to 10Km over SMF (9/125µm), Temp: 0°C ~ 70°C
(Optional Slim CAT6a Ethernet Patch Cord)	
C6A28-TPE-04BL	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 4ft / 1.2m
C6A28-TPE-05BL	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 5ft / 1.5m
C6A28-TPE-07BL	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 7ft / 2.1m
C6A28-TPE-10BL	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 10ft / 3.0m
C6A28-TPE-15BL	CAT6A Patch Cord, 28AWG Stranded, UTP, Snagless, TPE, Blue – 15ft / 4.6m

CONTACT INFORMATION

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

- **Website:** www.dsgio.com
- **Email:** sales.apac@dsgio.com

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