

# DATACOM



## DM-S100

CLOUD MANAGED GIGABIT ETHERNET SWITCHES

DATASHEET

# DM-S100

## CLOUD MANAGED GIGABIT ETHERNET SWITCHES

### MANAGED GIGABIT ETHERNET SWITCHES

The DM-S100 switch line is a cloud-managed Gigabit Ethernet wire-speed solution to meet the growing bandwidth demand in enterprise networking applications, with PoE/PoE+ and Gigabit Ethernet uplink optical interfaces.

The switches have a switching capacity of 20Gbit/s with all packet processing implemented in hardware, at wire-speed speed, ensuring the switching of all packets without traffic blocking. Filtering functionalities also run on hardware, with no impact on CPU performance or packet forwarding.

It has a CLI configuration interface with automatic syntax assistance, accessible through SSH, Telnet and RS-232 Console. Internal Web server and SNMP agent are also available.

DM-S100 switches support a number of advanced functionalities, such as VLAN configuration, Link Aggregation, and Spanning Tree network protection and redundancy protocol (STP, MSTP, and RSTP). For Multicast, IGMP Snooping functionality is supported.

For network optimization, the switches have 8 CoS queues per port with traffic classification by IEEE802.1p and multiple matches using ACLs, allowing for bandwidth throttling and traffic conformation.

- Cloud Managed L2 Switches (DmCloud)
- 20Gbps to 56Gbit/s switching capacity
- 2x GE Uplinks (SFP)
- 8x 10/100/1000Base-T RJ45 interfaces
- MAC table with 8K addresses
- VLAN, QoS, STP
- Model with PoE+ support
- Internal power supply



# DM-S100 – TECHNICAL SPECIFICATIONS

Item	DM-S100 8GT2GX	DM-S100 8GP2GX
ELECTRICAL INTERFACES	8x 10/100/1000Mbps	8x 10/100/1000Mbps (with PoE/PoE+)
	Support Autonegotiation and Auto MDIX, Support Half and Full Duplex Modes	
OPTICAL INTERFACES	2x 1000Base-X SFP	
SWITCHING CAPACITY	20Gbps	
PACKET FORWARDING	15Mpps	
FLASH MEMORY	64MB	
RAM MEMORY	256MB	
DIMENSIONS [ W x D x H]	220x150x44mm	280x180x44mm
ENVIRONMENTAL CONDITIONS	Operating temperature: -5°C to 55°C Humidity: 10% to 90% non-condensing	Operating temperature: -5°C to 50°C Humidity: 10% to 90% non-condensing
VENTILATION	Fanless	
POWER SUPPLY	Internal Source 100~240VAC	
PoE SUPPORT	No	Yes (125W)
POWER SUPPLY (W)	< 8	< 150
MTBF	>200,000 hours	
STANDARDS MET	IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ad, IEEE 802.3ac, IEEE 802.1ax, IEEE 802.1p, IEEE 802.1q, 802.3az, RoHS Compliant, Anatel, CE Mark	
CABLING	10BASE-T UTP category 3,4,5 (max 100m) 100BASE-Tx UTP category 5.5e cable (max 100m) 1000BASE-T UTP category 5e,6 cable (max 100m)	
SWITCHING	Store-and-forward	
PACKET BUFFER	4Mbits	
MAC ADDRESS LEARNING	8k	
JUMBO FRAME (MTU)	9216 bytes	
ARP TABLE	256	

## DM-S100 – FIRMWARE

Item	DESCRIPTION
MANAGEMENT	TELNET, SSH, WEB, NTP, HTTP/HTTPS, SSL, FTP e TFTP SNMPv1, v2 and v3, CONSOLE DNS Client MIBs ZTP Multiple users Local and remote Syslog Manageable by DmCloud platform
INTERFACES	Monitoring Up to 8-port link aggregation Port Mirror Green Ethernet (IEEE 802.3az)
VLAN	VLAN 802.1q Port based VLAN, Voice VLAN, Protocol VLAN, MAC VLAN, Surveillance VLAN, VLAN Mapping 4k VLAN IDs
STP	IEEE802.1w Rapid Spanning Tree Protocol (RSTP) IEEE802.1d Spanning Tree Protocol (STP) IEEE802.1s Multiple Spanning Tree Protocol (MSTP)
QoS	8 queues DSCP, 802.1p Rate limit (ingress / egress) Tail drop
DHCP	DHCP Client, DHCP Snooping
MULTICAST	IGMP Snooping v1 / v2
DIAGNOSIS	Ping Traceroute
NETWORK SECURITY	ACLs Port Security Loop Detection CPP

# DM-S100 – ORDERING INFORMATION

MODEL	DESCRIPTION	PHOTO
<b>DM-S100 8GT2GX</b> 825.4543.xx	DM-S100 8GT2GX L2 Fanless Switch with 8x Electrical Gigabit Ethernet Ports and 2x Optical Gigabit Ethernet Uplink Ports on SFP Connectors. SFPs must be purchased separately. Managed by DmCloud.	
<b>DM-S100 8GP2GX</b> 825.4544.xx	DM-S100 8GP2GX L2 Fanless Switch with 8x electrical Gigabit Ethernet ports with PoE/PoE+ support and 2x optical Gigabit Ethernet uplink ports on SFP connectors. SFPs must be purchased separately. Managed by DmCloud.	

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