

DATACOM



DM1105E

GIGABIT ETHERNET SWITCHES

DATASHEET

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MANAGEABLE GIGABIT ETHERNET SWITCHES WITH POE+ SUPPORT AND 10 GIGABIT UPLINK OPTION

The DM1105E switch line is a Gigabit Ethernet wire speed solution designed to meet the growing bandwidth demand in corporate network applications, offering models without PoE (Power over Ethernet) support and with optical interfaces for GE or 10GE uplinks.

The switches have a switching capacity ranging from 56Gbit/s to 216Gbit/s, with all packet processing implemented in hardware at wire-speed, ensuring the switching of all packets without traffic blocking. Filtering functionalities are also executed in hardware, without impacting CPU performance or packet forwarding.

It features a CLI configuration interface with automatic syntax assistance, accessible via SSH, Telnet, and RS-232 Console. Additionally, an internal Web Server and SNMP agent are available.

To ensure network security, the switches allow the creation of a reliable management structure through RADIUS authentication. They also support protection against Denial of Service (DoS/DDoS) attacks and port/MAC Address authentication in accordance with IEEE802.1x. They incorporate mechanisms to safeguard against broadcast and multicast attacks.

The DM1105E switches support an array of advanced features, including simultaneous VLAN configuration, Link Aggregation, and network protection and redundancy protocols like Spanning Tree (STP, MSTP, and RSTP). They also incorporate IGMP Snooping and MLD Snooping functionality for Multicast support.

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

- Gigabit Managed L2 Switches
- Switching capacity ranging from 56Gbps to 216Gbps
- GE (SFP) or 10GE (SFP+) Uplinks
- Models with 24 or 48 10/100/1000Base-T RJ45 interfaces
- MAC table with 8K, 16K, or 32K addresses, depending on the model
- VLAN, QoS, STP
- Models with PoE+ support
- Internal Power Supply





DM1105E – TECHNICAL SPECIFICATION

Item	DM1105E 24GT+4GX	DM1105E 24GP+4XS	DM1105E 48GT+6XS	DM1105E 48GP+6XS
ELECTRICAL INTERFACES	24x 10/100/1000Mbps	24x 10/100/1000Mbps	48x 10/100/1000Mbps	48x 10/100/1000Mbps
	auto negotiation and auto MDIX, Half and full duplex support			
OPTICAL INTERFACES	4x 1000Base-X SFP	4x 1/10GBase-X SFP+	6x 1/10GBase-X SFP+	6x 1/10GBase-X SFP+
SWITCH FABRIC	56Gbps	128Gbps	216Gbps	216Gbps
PACKET FORWARDING	42,00Mpps	95,2Mpps	129,3Mpps	129,3Mpps
PROCESSOR	500Mhz	800Mhz	Dual Core 1Ghz	Dual Core 1Ghz
FLASH MEMORY	16MB	32MB	64MB	32MB
RAM MEMORY	128MB	128MB	512MB	128MB
DIMENSIONS [WxDxH]	441 x 130 x 44mm	441 x 270 x 44mm	441 x 270 x 45 mm	441x 330x 45mm
	Standard 19" rack-mountable with 1U height			
ENVIRONMENTAL CONDITIONS	Operating temperature: 0°C to 40°C, humidity: 10% to 90% non-condensing Storage temperature: -40°C to 70°C, humidity: 10% to 90% non-condensing			
FAN	FANLESS	FIXED INTERNAL FAN		
POWER SUPPLY	Fixed Internal Power Supply 100~240VAC, 50/60Hz with automatic selection.			
PoE Support	-	PoE / PoE+ Power Budget: 380W	-	PoE / PoE+ Power Budget: 400W
POWER CONSUMPTION (W)	20W	450W	48W	450W
STANDARDS	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			
CABLING	10BASE-T UTP Category 3, 4, 5 (maximum 100m) 100BASE-Tx UTP Category 5, 5e cable (maximum 100m) 1000BASE-T UTP Category 5e, 6 cable (maximum 100m)			
SWITCHING	Store-and-forward	Store-and-forward	Store-and-forward	Store-and-forward
MAC ADDRESS LEARNING	8k	16k	32k	32k
JUMBO FRAME	10.000 Bytes		12.000 Bytes	
LEDs	Power (Green)			
	Link/Activity/Speed (10/100Mbps - Orange, 1000Mbps - Green), SFP: Green System: Green			

DM1105E – FIRMWARE

Item	DESCRIPTION
MANAGEMENT	<p>TELNET, SSH, WEB, SNMP, HTTP/HTTPS, FTP and TFTP</p> <p>SNMPv1, v2 and v3, RMON, CONSOLE</p> <p>Configuration management via running-config and startup-config</p> <p>Multiple users</p> <p>Dual Firmware images</p> <p>Local and remote Syslog</p>
INTERFACES	<p>Monitoring, Rate-limiting</p> <p>LLDP, LLDP-MED</p> <p>Link Aggregation for up to 8 ports</p> <p>Port Mirroring</p> <p>Green Ethernet (IEEE 802.3az)</p>
VLAN	<p>Port based VLAN, Voice VLAN, Protocol VLAN, MAC VLAN, Surveillance VLAN, GVRP</p> <p>VLAN 802.1q</p> <p>4k VLAN IDs</p> <p>256 simultaneous VLANs</p>
MAC ADDRESS	<p>Static and dynamic learning</p> <p>Aging time</p> <p>MAC Filtering</p>
STP	<p>IEEE802.1w Rapid Spanning Tree Protocol (RSTP)</p> <p>IEEE802.1d Spanning Tree Protocol (STP)</p> <p>IEEE802.1s Multiple Spanning Tree Protocol (MSTP)</p> <p>BPDU Guard</p>
QoS	<p>8 queues, SP scheduling, WRR.</p> <p>DSCP, CoS Map</p>
DHCP	DHCP Snooping
MULTICAST	<p>IGMP Snooping v1 and v2</p> <p>MLD Snooping</p> <p>MVR</p>
TROUBLESHOOTING	<p>Ping</p> <p>Traceroute</p> <p>Electrical and optical interface testingUDLD</p>
SECURITY	<p>ACL: L2/L3/L4 Layers; Packet classification based on:</p> <ul style="list-style-type: none"> • MAC Address, • IP Address, • TCP/UDP port, • Protocol type; <p>RADIUS, TACACS+ Authentication</p> <p>AAA</p> <p>DoS attack protection</p> <p>IEEE 802.1x (dot1x)</p> <p>Dynamic ARP Inspection</p> <p>IP Source Guard</p> <p>Storm-Control</p> <p>Loop Detection</p>

DM1105E – ORDERING INFORMATION

MODEL	DESCRIPTION	PHOTO
DM1105E 24GT+4GX 825.4523.xx	L2 Switch Fanless with 24 Gigabit Ethernet electrical ports and two Gigabit Ethernet optical uplink ports using SFP connectors. SFP modules need to be purchased separately	
DM1105E 24GP+4XS 825.4524.xx	L2 switch with 24 Gigabit Ethernet electrical ports supporting PoE+ and four 10 Gigabit Ethernet optical uplink ports using SFP+ connectors. SFP+ modules need to be purchased separately.	
DM1105E 48GT+6XS 825.4525.xx	L2 switch with 48 Gigabit Ethernet electrical ports and six 10 Gigabit Ethernet optical uplink ports using SFP+ connectors. SFP+ modules need to be purchased separately.	
DM1105E 48GP+6XS 825.4526.xx	L2 switch with 48 Gigabit Ethernet electrical ports supporting PoE+ and six 10 Gigabit Ethernet optical uplink ports using SFP+ connectors. SFP+ modules need to be purchased separately.	

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