

# DATAKOM



## DM4376

CARRIER GRADE ACCESS SWITCH

DATASHEET

# DM4376

## SWITCHES CARRIER GRADE

### IP/MPLS SWITCH BASED ON THE DmOS NETWORK OPERATING SYSTEM, WITH 10GE UPLINK INTERFACES FOR METRO ETHERNET ACCESS APPLICATIONS WITH FULL TIMING SUPPORT FOR 5G APPLICATIONS.

DM4376 switches provide high switching capacity to meet the growing demands of IP traffic aggregation in Metro Ethernet access networks and high-capacity enterprise networks, while always providing high performance and reliability.

Based on the DmOS network operating system, the DM4376 switches ensure robustness and high availability of services on a platform with support for a series of L2, L3, MPLS and timing functionalities, among which stand out the support for VLAN operations such as QinQ and VLAN Translate, LAG/LACP, ring operation through the EAPS or ERPS protocol, support for RSTP, static and dynamic IP routing protocols through OSPF and BGP, filters for creating access policies (ACL), QoS functionalities, among others. MPLS transport and aggregation features are also supported over LDP for creating point-to-point services (VPWS) and point-to-multipoint services (VPLS), as well as IP services over L3VPNs. All L2, L3 and MPLS packet forwarding, filter application and QoS policies are done in HW, ensuring wirespeed operation.

The DM4376 provides a complete solution of timing features, supporting the main IEEE 1588v2 profiles in transparent clock, boundary clock and ordinary clock modes, Synchronous Ethernet support.

The product offers configuration through a command line (CLI) accessible by SSHv2, *Telnet* and RS-232 or USB console port. RADIUS and TACACS capabilities allow the creation of user access authentication and authorization policies. Local and remote syslog, NTP and SNMP clients are also available to enable remote management and troubleshooting of equipment.

DM4376 switches are 1U high equipment ready for installation in standard 19-inch racks. It has power redundancy through two hot-swap slots for Full Range AC/DC power supplies, ensuring that the requirements of high-availability applications and services are met.



- 2 x 10/100/1000Base-T interfaces on RJ-45 connectors
- 4 x 1000Base-X interfaces on SFP connectors
- 4 1000Base-X / 10GBase-X interfaces on SFP+ connectors
- Compact design with 1U height
- VLAN, QinQ, VLAN Translate, ERPS, and EAPS support for Metro Ethernet applications
- MPLS LDP, VPWS, VPLS, and L3VPN support for data aggregation and transport applications over high-capacity networks
- Static and dynamic routing through OSPF or BGP
- Full support to IEEE 1588v2 and Synchronous Ethernet
- Two hot-swap slots for redundant AC or DC power supplies

# TECHNICAL SPECIFICATIONS

Group	Functionality	DM4376 2GT+4GX+4XS
HARDWARE	AC/DC power	2 Slots para PSU (hot swap)
	PSU 85 AC – Power Input	100Vac to 240Vac
	PSU 85 DC – Power Input	-48Vdc to -60Vdc
	Maximum Consumption	100W
	Operating Temperature	0°C to 65°C
	Relative Humidity Operation	10% to 90%, non-condensing
	Altitude	0 to 3000m
	Storage Temperature	-20oC to 70oC
	Storage Relative Humidity	5% to 95%, non-condensing
	Dimensions in mm (H x D x W)	44 x 230 x 351
	Dimensions in mm (H x D x W) – With 19" Rack Adapter	44 x 230 x 480
	Weight (kg)	1.2 kg
INTERFACES	1/10G Base-X (SFP+)	4
	1000Base-X (SFP)	4
	10/100/100Base-T (RJ-45)	2
	10/100/100Base-T Outband MGMT (RJ45)	1
	Console (RJ45)	1

# STANDARDS

## *ANATEL*

Resolution 242 (30 November 2000)

Regulation for Certification and Approval of Telecommunications Products

Resolution 323 (7 November 2002)

Standard for Certification of Telecommunications Products.

Resolution 442 (July 21, 2006)

Regulation for the Certification of Telecommunications Equipment regarding Electromagnetic Compatibility Aspects.

## *ETSI*

EN 300 019-1-1, Class 1.2

Environmental Conditions for storage

EN 300 019-1-2, Class 2.3

Environmental Conditions for Transport

EN 300 386 V1.6.1 (2012-09)

Electromagnetic compatibility and Radio spectrum Matters (ERM)

EN 55022

Information technology equipment. Radio disturbance characteristics - Class A

## *IEC*

60825-1

Laser Safety Class

61000-4-11

Voltage dips, short interruptions and voltage variations immunity tests

61000-4-6

Immunity to conducted disturbances, induced by radio-frequency fields

EN 61000-4-2

Electrostatic Discharge Immunity Test

EN 61000-4-4

Electrical fast transient/burst immunity test

EN 61000-4-5

Surge immunity test

# ORDERING INFORMATION

Model	Description
<b>DM4376 2GT+4GX+4XS</b> <i>800.5322.5x</i>	Managed switch with L2, L3, MPLS, and Timing features, with 2 10/100/1000Base-T ports on RJ-45, 4 1000Base-X interfaces on SFP connectors, and 4 1000/10Gbase-X interfaces on SFP+ connectors. SFP/SFP+ modules purchased separately. 1U metal cabinet for 19" rack with 2 PSU slots. MPLS feature requires license purchase. Outband management interfaces and RS232 console. AC/DC power supply with separately purchased redundancy option.
<b>PSU 85</b> <i>800.0xxxx.5x</i>	AC/DC power supply with AC 100-240VAC and 50/60Hz input and DC with -48 to -60VDC input. Provides 85W of power. Allows operation as a redundant and hot-swappable source.
<b>License DM4376 - SW MPLS</b> <i>012.4220.00</i>	Software license for use of MPLS functionalities in DM4376.

# OPTICAL MODULES & CABLES

Item	Description
SFP+ 10GbE <i>PN: consult</i>	SFP+ type optical module for 10 Gigabit Ethernet applications. Versions with varying power and range specifications are offered. Contact Datacom for information on available models
SFP 1GbE <i>PN: consult</i>	SFP type optical module for 1 Gigabit Ethernet applications. Versions with varying power and range specifications are offered. Contact Datacom for information on available models

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