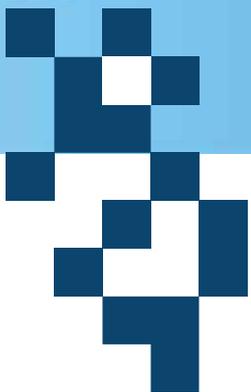# DATACOM Ethernet Switches
DM4050 Family

Standalone Ethernet Switches with optical and electrical versions supporting several Ethernet infrastructure applications, from Enterprise Access to Metro Ethernet Aggregation.

DATACOM

Datacom Ethernet Switches consists of different product families that compose a complete Ethernet portfolio for applications from the access to the core of the networking infrastructure.

The product families are DM4000, DM4100, DM4050, DM4170 as Core and Aggregation Ethernet Switches, DM2100 and DM2300 as Ethernet Demarcation switches and DM1200E as an Enterprise LAN switch.

DM4050 Family

The DM4050 Ethernet Switches family is composed by two Gigabit Ethernet switches with six 10GE uplinks, based on the modular Datacom's operational system DmOS. With a complete layer2/layer3 feature set, the switches are the perfect fit for several applications of GE access and aggregation on Metro Ethernet and Enterprise networks.

The switches have 1U height and are ready for 19 inches standard rack installation. Both models have two hot swappable slots for redundant AC/DC universal power supply units, assuring high availability services and operation.
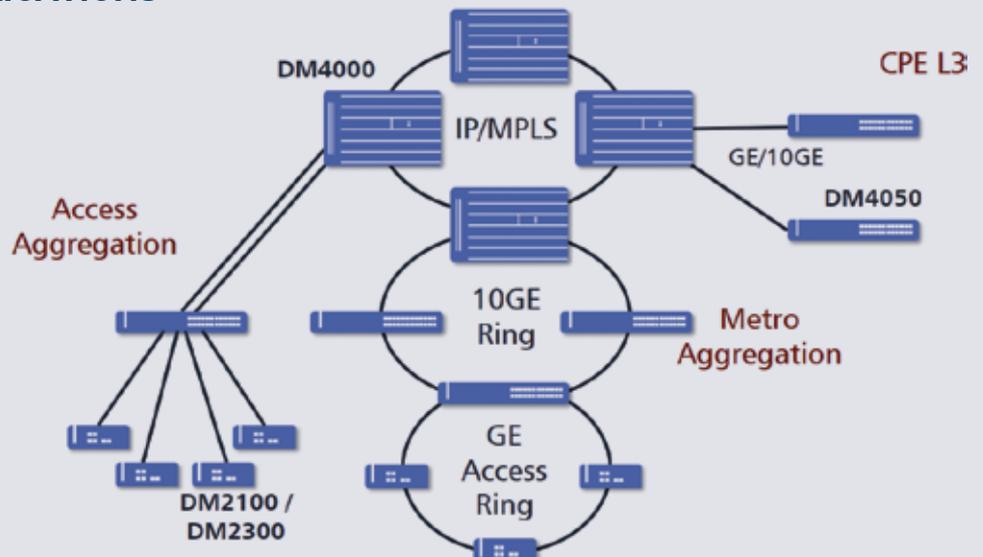
Key Features

- Wire Speed, with L2 and L3 forwarding, filtering and QoS done on hardware level
- IEEE802.1Q VLAN with up to 4k VLANs, Q-in-Q and VLAN Translate capabilities
- Link Aggregation and LACP
- Support for Ring applications through EAPS or ERPS protocols
- STP/RSTP for loop protection
- L2 Slow Protocol Tunneling (L2CP)
- Static Routing and Dynamic Routing through OSPF and BGP protocols
- Up to 8 QoS queues per port
- Packet classification by IEEE802.1p, DSCP, Source/Destination Port
- Packet Scheduling through SP and WFQ modes
- Ingress and Egress Rate Limit
- ACL Matches by port, MAC address, IP, DSCP, TCP/UDP
- CLI Management interface with Telnet/SSH
- TACACS and RADIUS for management access policies
- Alarm interfaces with 1 output and 2 inputs
- L2/L3 tables: 16k L2 Mac, 1k L3 Routes, 4k Hosts

Applications

METRO ETHERNET APPLICATIONS

With its optical GE and 10GE interfaces, L3 feature set and redundant power supplies, the DM4050 switches are suitable for different roles in the Metro Ethernet Network, as 10GE Aggregation Rings, 10GE L3 CPE or GE FTTx Access Aggregation.

DM4050 Family Models

DM4050 24GX+6XS

Layer2/Layer3 switch with 24 optical SFP based GE ports and 6 optical 10GE SFP+ based ports with redundant and hot swap power supply slot.

DM4050 24GT+6XS

Layer2/Layer3 switch with 24 electrical RJ45 GE ports and 6 optical 10GE SFP+ based ports with redundant and hot swap power supply slot.
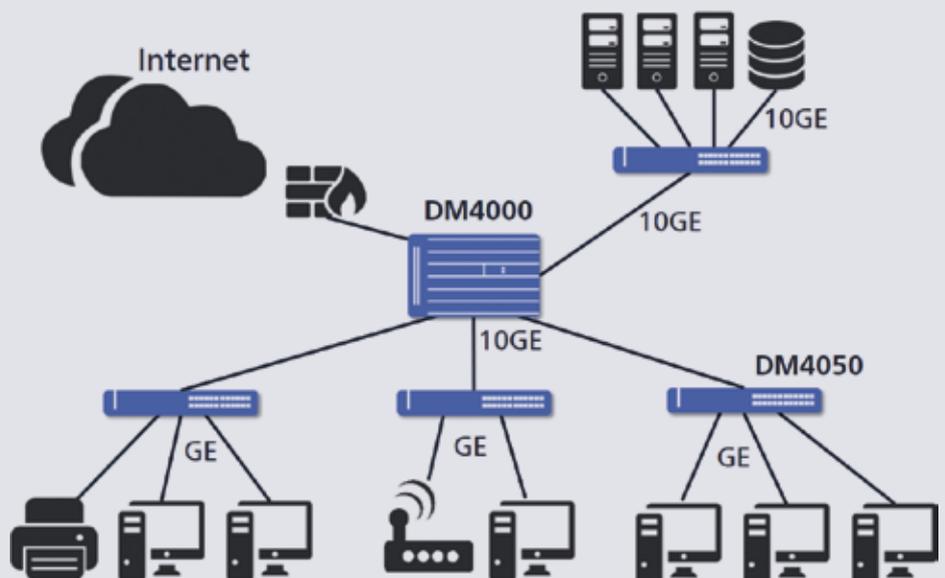
Hardware Characteristics

	DM4050 24GX+6XS	DM4050 24GT+6XS
GE Interface	24 (SFP)	24 (RJ45)
10GE Interfaces	6 (SFP+)	
Switch Fabric	168 Gbps	
Power Supply	Two redundant hot swap slots for AC/DC (100-240V and 48-60V) automatic selection PSUs	
Power (typical)	80W	60W
Alarms	1 output and 2 inputs	
Management Interfaces	GE out band, RS232 Console and USB	
Environmental	0 to 55°C operation temperature at 10% to 90% relative humidity	
Dimensions	Height 43.3mm, Depth 230mm, Width 447mm (481mm w/ brackets)	

ENTERPRISE NETWORK

DM4050 product line has electrical GE interface option that fits perfectly on a reliable and high capacity enterprise infrastructure, including high bandwidth 10GE uplinks for data aggregation.

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