

DM4170 FAMILY

IP/MPLS Switch for 10GE/40GE Aggregation



Standalone Ethernet IP/MPLS Switches based on the DmOS network operating system, with GE, 10GE and 40GE optical interfaces and support for several ethernet network infrastructure applications, from enterprise access to metro ethernet aggregation.



Datacom Ethernet Switches consist of different product families that compose a complete ethernet portfolio for applications from access to core of the networking infrastructure. The product families are DM4000, DM4100, DM4050, DM4170 as core and aggregation ethernet switches, DM2100, DM2300 and DM4370 as ethernet demarcation switches and DM1100E/DM1200E as enterprise LAN switches.



DM4170 Family

The DM4170 Ethernet Switches family comprises two models of Gigabit Ethernet switches based on the modular Datacom's network operating system DmOS. One of the models contains twelve 10GE uplinks, the other contains four 10GE and two 40GE uplinks and both have additional 24 GE optical interfaces. With a complete layer2/layer3 feature set and MPLS support, the switches are the

perfect fit for several applications of GE and 10GE 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 or DC universal power source units, assuring high availability services and operation.

Key Features

- Wire Speed, with L2, L3 and MPLS forwarding, filtering and QoS executed on hardware level
- IEEE802.1Q VLAN with 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
- Virtual IP redundancy through VRRP protocol
- Operation as Label Edge Router or Label Switch Router through MPLS encapsulation
- LDP for label distribution on MPLS network infrastructure
- 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

DM4170 Family Models

DM4170 24GX+12XS

L2/L3 and MPLS switch with 24 optical SFP based GE ports and 12 optical 10GE SFP+ based ports with redundant and hot swappable power supply slots



DM4170 24GX+4XS+2QX

L2/L3 and MPLS switch with 24 optical SFP based GE ports, 4 optical 10GE SFP+ and 2 optical 40GE QSFP+ based ports with redundant and hot swappable power supply slots



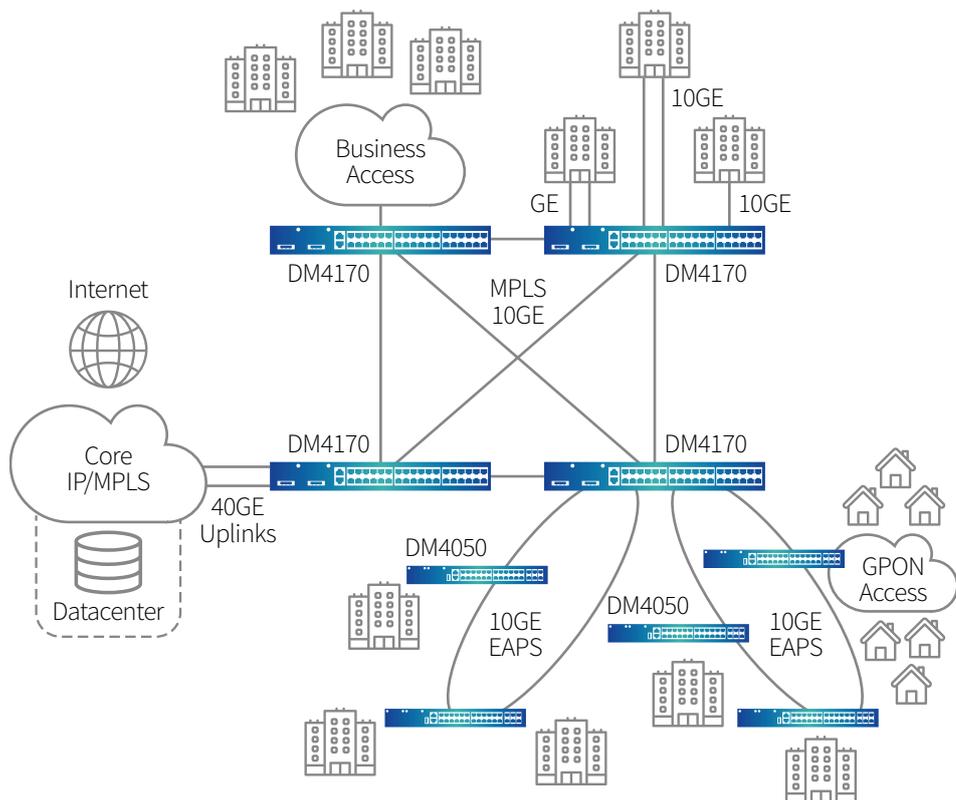
Hardware Characteristics

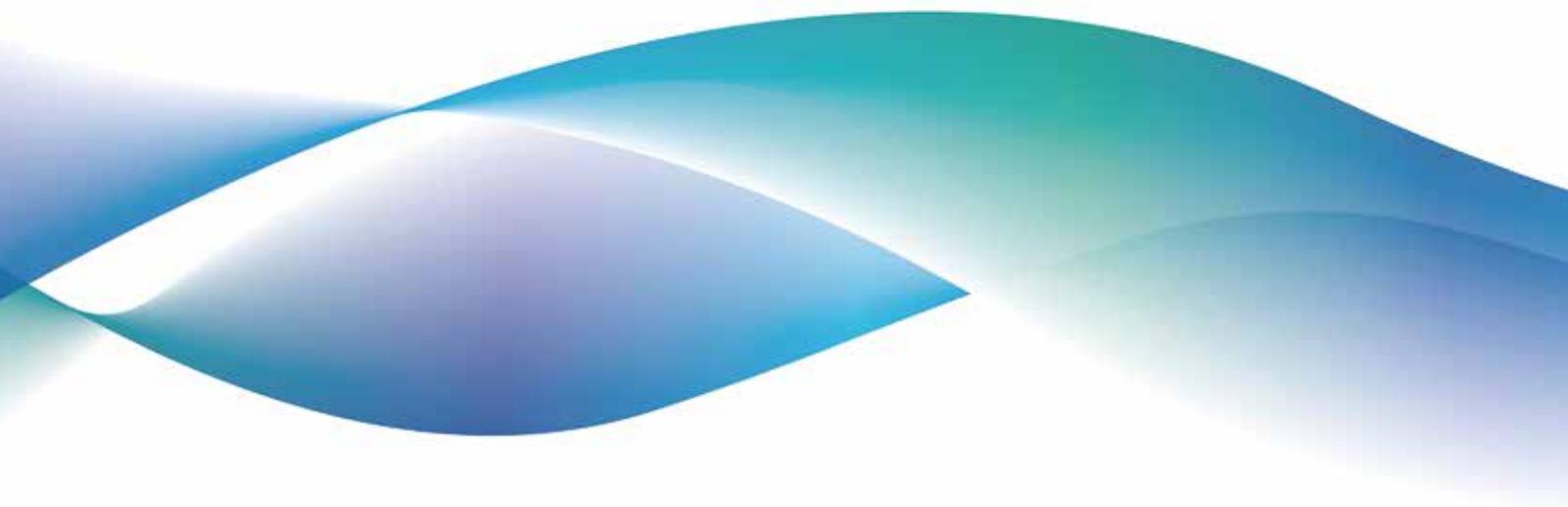
| | DM4170 24GX+12XS | DM4170 24GX+4XS+2QX |
|-----------------------|---|---------------------|
| GE Interface | 24 (SFP) | |
| 10GE Interfaces | 12 (SFP+) | 4 (SFP+) |
| 40GE Interfaces | — | 2 (QSFP+) |
| Switch Fabric | 288 Gbps | |
| Power Supply | Two redundant hot swappable slots for AC (100 - 240V) or DC (48 - 60V) PSUs | |
| Power Consumption | 90W (typical) | |
| Alarm interfaces | 1 output and 2 inputs | |
| Management Interfaces | GE out-of-band, RS232 Console and USB | |
| Environmental | 0 to 55°C operation temperature at 10% to 90% relative humidity | |
| Dimensions | (HxDxW) 44mm x 265mm x 447mm (482mm w/ brackets) | |

Application

METRO ETHERNET AGGREGATION

The DM4170 Ethernet Switches, through their GE/10GE/40GE optical interfaces and the complete support for L2 and IP/MPLS functionalities can address high capacity metro ethernet aggregation applications, offering a reliable and highly available solution for corporate or residential IP services. The products support different network topologies like ring, linear or full mesh, allowing the network design that best fits the service requirements.





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