

## ES-3016 Fabric Switch



*A Key  
Building Block  
for Open  
Enterprise-Wide  
SANs*



Every McDATA solution offers these important advantages:

- Compatibility proven in our Systems Integration Lab
- Education and training built on experience
- Proven methodology for building scalable solutions
- Complete family of core-to-edge enterprise solutions
- Collaborative partnerships with leading companies

When building a SAN infrastructure, IT managers need flexible, highly available solutions that support present and future business requirements. Because each enterprise has unique requirements, McDATA offers a comprehensive Fibre Channel switch family capable of meeting the SAN requirements of any enterprise.

The ES-3016 Switch is McDATA's 16-port enterprise fabric switch. It provides many of the high-availability features previously found only in data center offerings. Targeted to the needs of department environments, the ES-3016 Switch provides an excellent foundation for building a department-sized SAN or to connect a growing department network to the enterprise-wide SAN.

McDATA's ES-3016 Switch provides IT managers with deployment flexibility. With options such as McDATA software, the leading data center-class SAN infrastructure management platform, and 24x7 service options, the ES-3016 Switch performs exceptionally well in the most demanding SAN environments.

The ES-3016 Switch is the only switch in its class providing all of the following high-availability features:

- Hot-plug redundant power supplies
- Hot-plug redundant fans
- Hot-plug optics
- On-line diagnostics
- On-line, non-disruptive firmware load and activation
- Fault isolation tools for network-wide activity

In addition to providing best-in-class availability features, the ES-3016 Switch provides a very high port density, requiring only one unit (1.75 inches) of vertical rack space. This allows plenty of room for expansion where rack space is at a premium. When the ES-3016 Switch is the starting point for a SAN, growth possibilities become virtually limitless.

# ES-3016 Fabric Switch



## Specifications:

### Availability

Hot-plug redundant power supplies  
Hot-plug redundant fans  
Hot-plug optics  
On-line diagnostics  
On-line, non-disruptive firmware load and activation  
Fault isolation tools for network-wide activity

### Compatibility

Fibre Channel Protocols: FC-PH Rev 4.3, FC-PH-2  
FC-PH-3, FC-GS-2, FC-FLA,  
FC-FG, FC-SW2

SNMP: Fibre Alliance MIB – Version 3.0  
Fibre Channel Fabric Element MIB – Version 1.10  
TCP/IP MIB II

Fibre Channel  
Classes of Service: Class 2  
Class 3  
Class F

### Performance

Port Speed: 1.0625 Gbps, full duplex  
Throughput: 16 Gbps  
Buffer Credits: 60 per port  
Fabric Latency: Less than 2 microseconds average



**McDATA™**

Core-to-Edge Enterprise Solutions

380 Interlocken Crescent • Broomfield, CO 80021  
303.460.9200 • Sales: 800.545.5773 • Fax: 303.465.4996  
[www.mcdata.com](http://www.mcdata.com)

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## Scalability

Ports per Chassis: 16 G Ports  
Media Type: Hot-plug, industry standard LC Small Form Factor

Supported Optical Media Types / Distance  
Shortwave: 500 m (1,640 ft.)  
Longwave: 10 km (6.2 miles)  
With Repeaters: 100 km (60 miles)

Cabling: 9/125 micron single mode, 10 km (6.2 miles)  
50/125 micron multimode, 500 m (1,640 ft.)  
62.5/125 micron multimode, 300 m (1,148 ft.)

## Management Options

McDATA software  
Embedded Web Server  
SNMP  
Open Systems Management Server

## Access

In-band  
Ethernet (10/100 Mbps)

## Fabric Services

Simple Name Server  
In order delivery (Class 2, 3)  
Management server (optional)  
Broadcast  
Name server zoning

## Diagnostics

Power-on self-test  
On-line port  
Internal and external loopback  
On-line system health

## Serviceability

Hot-plug power supplies and fans  
Hot-plug optics  
Hot-load firmware upgrades  
Call-home, email (with McDATA software)  
Maintenance port (DSUB)  
Thermal protection  
Unit, port, FRU beaconing  
System error LED  
FRU failed LED

## Physical Dimensions

Height: 1.75 in. (1u)  
Width: 17.5 in.  
Depth: 26.25 in.  
Weight: 21 lbs.

## Installation Options

Rack mountable, 19-inch EIA rack  
Stackable tabletop

## Environmental

Non-operating Temp: 40° F to 125° F  
Humidity: 8% – 80%  
Altitude: 40,000 ft. (12,192 m)

Operating Temp: 40° F to 104° F  
Humidity: 8% – 80%  
Altitude: 10,000 ft. (3,048 m)

## Electrical

Operating Voltage: 100-230 VAC  
AMPS: 1 AMP  
Heat Output: 353 BTU per hour

## Regulatory

UL, CSA, CE Mark, VCCI Class 1  
FCC Part 15 Class