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.
## 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-FLA, FC-FG, FC-SW2
- **SNMP:**
  - Fibre Alliance MIB – Version 3.0
  - Fibre Channel Fabric Element MIB – Version 1.10
  - TCP/IP MIB II

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

### 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:**
  - Shortwave: 9/125 micron single mode, 10 km (6.2 miles)
  - Longwave: 50/125 micron multimode, 500 m (1,640 ft.)
  - Longwave: 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