



## Intrepid® 6140 Director



### Intrepid® 6140 Director:

- Ensures business continuance through 99.999 percent availability
- Maximizes system administrator resources with centralized management
- Delivers consistent high performance with transfer rates up to 10 Gb/s
- Provides a cost effective director solution for small- to mid-sized enterprises
- Enables flexible deployment through support for both Fibre Channel and FICON

### INTREPID 6140 DIRECTORS

The McDATA Intrepid® 6140 Director is the best choice for supporting mission-critical business requirements—24x7. A SAN built with a 4- and 10-Gb/s-capable Intrepid Director at the core keeps pace with exponential storage growth and can evolve to meet unexpected changes in your business.

The 140-port 6140 Director provides the highest availability. It offers a high-performing, flexible building block for large SAN deployments, with hundreds or even thousands of ports. It is the only single-stage, 140-port director designed today with support from 1 Gb/s to 10 Gb/s to meet any application performance needs. The Intrepid 6140 also provides exceptional flexibility by meeting the connectivity demands of both open systems and mainframe FICON environments.

Today's enterprise requires scalability and flexibility—and the Intrepid 6140 delivers. With 4-port granularity, companies can add just the capacity they need as their needs grow.

By coupling McDATA Intrepid Directors with our extensive switch, routing, extension and software solutions, customers can implement highly available networks to support tiered storage models utilized in data centers around the globe.

# Intrepid® 6140 Director

## AVAILABILITY

99.999%  
Hot-plug, redundant power supplies, fans, processors  
Hot-plug optics, port modules  
Online diagnostics  
HotCAT™ technology for online, non-disruptive firmware load and activation

## COMPATIBILITY

### Fibre Channel Protocols:

FC-PH v. 4.3, FC-PH-2, FC-PH-3, FC-GS-2, FC-FLA, FC-FG, FC-SW-2, FC-SW-3

### Fibre Channel Element MIB:

FE-MIB

### TCP/IP MIB-II Groups:

System, Interface, Address Translation, IP, ICMP, TCP, UDP, SNMP

Classes of Service: Class 2, Class 3, Class F

## PERFORMANCE

**Port Speed:** 10 Gb/s, full duplex  
**Buffer Credits:** 400 per port  
**Switch Latency:** Less than 2 microseconds average

## SCALABILITY

**Ports per Chassis:** Intrepid 6140: 140 Ports  
**Media Type:** Hot-plug, industry standard LC Small Form Factor

## Supported Optical Media

Types/Distance:

**Shortwave:** 500m (1,640 ft.) / 1 Gb/s  
300m (984 ft.) / 2 Gb/s  
82m / 10 Gb/s (OM2 cable)  
300m / 10 Gb/s (OM3 cable)  
**Longwave:** 10 km (6.2 mi.) / 2 Gb/s  
20 km (12.4 mi.) / 2 Gb/s  
35 km (21.7 mi.) / 2 Gb/s  
10 km / 10 Gb/s  
**With Repeaters:** 120 km (1 Gb/s)  
60 km (2 Gb/s)  
100 km / 10 Gb/s

## Cabling:

62.5/125 micron multimode, 300m (1,148 ft.)  
50/125 micron multimode, 500m (1,640 ft.)  
9/125 micron single mode, 0 km (6.2 mi.)

## MANAGEMENT OPTIONS

SANavigator® Software  
Enterprise Fabric Connectivity Manager (EFCM)  
SA OS/390 through FICON Management Server (CUP)  
SNMP  
Open Systems Management Server

## FABRIC SERVICES

Simple Name Server  
Management Server (optional)  
Broadcast  
Name Server Zoning

## ACCESS

In-band  
Ethernet (10/100 Mb/s)

## DIAGNOSTICS

Power-on self test  
Online port, CTP, SBAR  
Internal and external loopback  
Online system health

## SERVICEABILITY

Non-disruptive firmware upgrades  
HotCAT™ (hot code activation technology)  
Call-home, e-mail (with McDATA software)  
Smart thermal protection  
Unit, Port, FRU beaconing

## INSTALLATION OPTIONS

Rack mountable,  
19 inch EIA rack

## ENVIRONMENTAL

### Non-operating temp:

34° F to 140° F

### Non-operating humidity:

5%-80%

### Non-operating altitude:

12,192 m (40,000 ft.)

### Operating temp:

40° F to 104° F

### Operating humidity:

8%-80%

### Operating altitude:

3,048 m (10,000 ft.)

## Physical Dimensions

**Height:** 52.9 cm  
(20.8 in. 12U)  
**Width:** 44.5 cm  
(17.50 in.)  
**Depth:** 61.3 cm  
(24.1 in.)  
**Weight:** 75.9 kg  
(167 lbs.)

## ELECTRICAL

Operating voltage: 200-240 VAC  
AMPs (max.): 4.2 AMPs  
Heat output (max.): 2,873 BTU/hour  
Watts (max.): 841 Watts  
Regulatory: UL, CSA, CE Mark, VCCI Class 1, FCC Part 15

**MCDATA®**  
www.mcdata.com

**McDATA Corporate**  
380 Interlocken Crescent  
Broomfield, CO 80021  
USA  
800.545.5773  
720.558.8000

**McDATA Europe**  
Martin-Kollar-Str. 15  
81829  
Munich, Germany  
+49 (0)89-427411-0

**McDATA Asia Pacific**  
20 Cross Street, #02-11/12  
China Court, China Square  
Central  
Singapore 048422  
+65-6438 0600