

For Enterprise

ESCON Environments

CD/9000-256

CHANNEL DIRECTOR



- Fully ESCON Compatible
- Fully-featured CD/9000
- Capacity for 256 ports
- 51.2 Gbps switching fabric
- Expandable in 4-port increments
- Compact enclosure
- Components compatible with CD/9000-Model 128
- Fibre Channel
- FICON to FICON

The CD/9000-256 Channel Director is designed for use in ESCON® networking environments that require automated connectivity control and resource management. With a maximum capacity of 256 ports, the CD/9000-256 can accommodate up to 128 simultaneous connections. Using a CD/9000-256, IT managers can more accurately distribute workloads across available processors, links, and control units to assure optimum utilization. The system is compact, making it the ideal CD/9000 Channel Director solution for data centers with space limitations.

Fully-Featured ESCON Connectivity Management

A CD/9000-256 provides high-speed connectivity between host channels and ESCON-compatible CUs via fiber optic links. Maximum capacity is 256 ports. The system may be expanded in 4-port increments, from 4 to 256 ports, using Quad Port Adapter (QPA) Modules (either multi-mode LED, single-mode laser, or single-mode DMIF). The system's crosspoint switching fabric supports aggregate throughput speeds up to 51.2 Gbps and is able to support 128 simultaneous duplex connections.

From the system's control console, an operator can perform various system configuration and connectivity operations, associating ports logically and partitioning a Director into multiple Logical Directors.

Logical Port Grouping facilitates improved operations and system configuration management by permitting organization of attached devices according to function, in easily identifiable groups, regardless of physical proximity of port adapters. All connections for manufacturing, for example, could be collected and managed as one group, with connections for financing managed as another. Related ports for channels and CUs then could be readily identified, eliminating time-consuming searches.

The Logical Directors feature permits a single, physical CD/9000-256 to be divided into multiple Logical Directors (for example, as two 128-port Logical Directors, or up to sixteen 16-port Logical Directors). Using Logical Directors, an operator can allocate several Logical Directors, each for a different purpose, but operating under common control. One Logical Director might be set aside for training, another as a testbed for new equipment and applications.



SPECIFICATIONS

RECOMMENDED CDC SOFTWARE
CDC Release 2.1 or later

PHYSICAL

Height: 58 in. (147.32 cm)

Width: 23 in. (58.42 cm)

Depth: 32.125 in. (81.6 cm)

Weight: 564 lbs. (257 kg) max.

ELECTRICAL

Source: 208 - 240 VAC, 47 - 67 Hz,
single phase, 30 Amps

Power: 2.09 - 3.26 kVA

Heat: 7.06 - 11.03 kBTU/hr

COMPARATIVE ANALYSIS OF CD/9000-128 AND McDATA MODEL 3

	CD/9000-128	McDATA Model 3
On-line Port Capacity	4 - 128	28 - 124
Port Expansion Increment	4	4
Simultaneous Connections	64	62
Component Redundancy	Standard	Optional
Power Supply	N+1	One
Power Cords	Two	One
Switch Module	Standard	Optional
Logical Port Grouping	Standard	No
Logical Director	Standard	No
Port Connectivity Matrixes	Standard	No
On-Line Code Load	Standard	Optional
FICON to FICON	Optional	No

CD/9000-128 COMPATIBILITY

The CD/9000-128 is fully compatible with IBM Enterprise Systems Architecture/390 I/O Interface SA22-7202 and is plug-compatible with the following:

- Processors supporting ESCON channels
- Control units and peripherals supporting ESCON channels
- Other ESCON Directors
- ESCON Channel Converters
- Remote Channel Extenders
- All INRANGE ESCON products

ORDERING INFORMATION

PRODUCT NUMBER	DESCRIPTION
47-305	CD/9000-Model 128 CHANNEL DIRECTOR, Basic Cabinet Assembly
47-325	Quad Port Adapter LED Module
47-329	Quad Port Adapter Laser Module
47-390	Quad Port Adapter DMIF Module, 20 km
47-331	Additional Power Supply Assembly
47-454	Fibre Channel Enabling Feature



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The CD/9000-128 also supports the use of Port Connectivity Matrixes (PCMs). A PCM is a stored configuration table of ports and their attributes. The use of PCMs assures operations consistency and eliminates time-consuming manual configuration. Any number of PCMs can be created and saved for immediate recall.

A Foundation for Growth

The modest physical size of the CD/9000-128 offers a natural starting

point for enterprises migrating from older Bus & Tag host networking technology to ESCON.

The CD/9000-128 runs under the same operating system and management software as the CD/9000-256. And it uses common hardware components (that is, the same QPA modules, power supplies, and crosspoint switching fabric as the CD/9000-Model 256).