

# Digital Monitor Module System

75 Ohm Interconnect



Designed as a flexible solution for network signal management, ADC's Digital Monitor Module (DMM) system provides a centralized coaxial termination and interconnection point between network elements (NE). The DMM system allows a permanent, dedicated connection between two NEs while providing dual, nonintrusive test access points for bidirectional monitoring of the network signal. Ensuring unsurpassed quality, this interconnect solution features cable management designed to increase reliability, maintain signal flow, and allow easy cable identification. To enhance network flexibility, the DMM system allows modules to be installed in a chassis as network requirements increase.

## Features:

- Provides bidirectional, nonintrusive signal testing
- Supports E1 (2.048 Mbps), E3 (34.368 Mbps), or STM-1 (155.52 Mbps) signal rate applications
- Modular design allows for capital investment to coincide with revenue growth
- Mounts in standard 600 mm bays
- Quality cable management and circuit identification markings

SPEC SHEET



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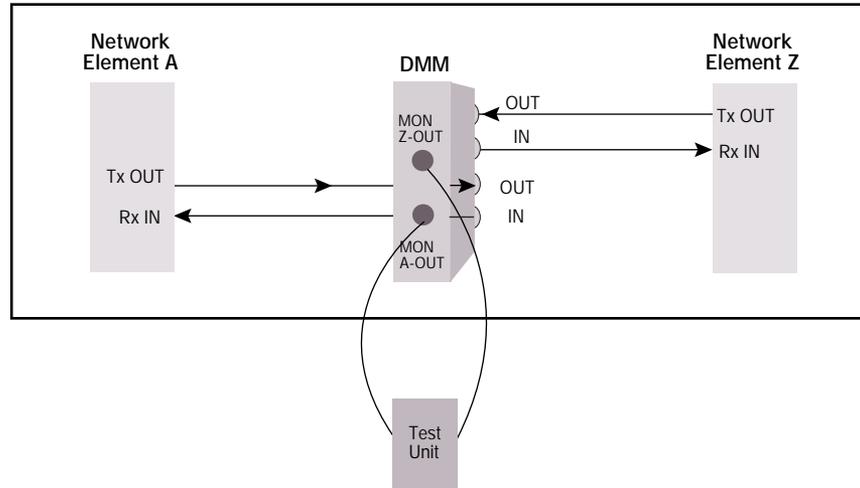


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## Application

The DMM system is used primarily in co-location environments, DDF locations, and customer premises as a connection point between NEs. Each NE is semipermanently cabled to IN/OUT connectors in either the front or rear of each module. The digital signal is accessed through the two MON OUT connectors on the front of each module for testing and monitoring. These dual monitor ports allow access to both directions of the circuit from a single location. This saves valuable technician time when the other side of the termination is located far away, in another room, or is inaccessible.



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## Configurations

The DMM system is available in several chassis and rack configurations to create a customized interconnect solution. Each module is ordered separately and may be installed in any DMM chassis or rack configuration as the network expands, allowing capital investment to coincide with revenue growth.

### Modules

Multiple connector interface types and locations are available to complement existing network designs. Individual modules allow chassis to easily match existing NE circuit counts.

### Standard Configuration

Up to 12, 24-position chassis are designed to mount in a standard 600 mm rack for a total of 288 circuits. Cable management bars, trays, and labeling are provided on each chassis.

### High-Density Configuration

This uniquely designed dual chassis features two separate compartments, each accommodating up to eight modules mounted horizontally. The two compact compartments are mounted side-by-side in a specially designed dual-column 600 mm rack. This high-density configuration allows a total of 352 circuits in one rack. Cable management bars and four vertical cabling ducts ensure proper routing for high-density cabling.

### Wall-Mount Box

This six-position enclosure serves as an interconnect demarcation point between network providers and customers. Separate locks on each door secure connections from unwanted access.



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### Modules

#### Features:

- Front, dual monitor ports on all module styles
- BNC or 1.6/5.6 connectors provide true 75 Ohm characteristic impedance
- All module styles are compatible with any DMM 600 mm chassis style

#### Ordering Information

Description	IN/OUT Connector Locations	Catalog Number
BNC	Rear	DMM-BBNCMF
BNC	Front and Rear	DMM-BBNCF
BNC Bulkhead	Front and Rear	DMM-BNCBLK
1.6/5.6	Rear	DMM-1656MF
1.6/5.6	Front and Rear	DMM-1656F
1.6/5.6 Bulkhead	Front and Rear	DMM-1656BLK
Blank	None	DMM-BLANK



DMM-BBNCMF  
Rear and Front View



DMM-BBNCF  
Rear and Front View



DMM-BNCBLK  
Rear and Front View



DMM-1656MF  
Rear and Front View



DMM-1656F  
Rear and Front View



DMM-1656BLK  
Rear and Front View

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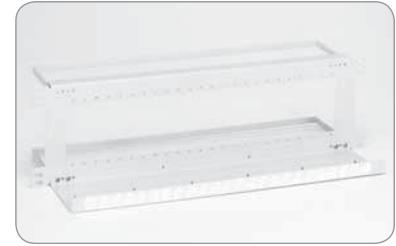
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## Standard Configuration

### Features:

- 288 total circuits in fully loaded bay
- Cable bars and front cable trays, with cable tie-downs, reduce cable congestion and simplify maintenance
- Circuit designation labels above connectors and on cable tray ensure proper cable routing and identification
- Bay equipped with cable troughs, vertical wiring ducts, and equipment cable tie-down bars
- Zone 4 earthquake-rated rack with EIA mounting spacing

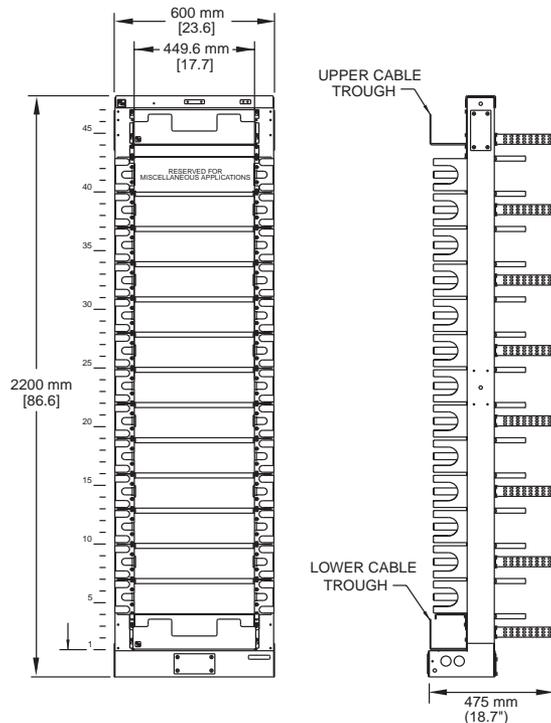


D3C-0024T  
Front View

### Ordering Information

Description	Dimensions (HxWxD)	Ordering Number
Unloaded Chassis accommodates up to 24 modules	113 x 482.6 x 228.6 mm (4.4" x 19" x 9")	D3C-0024T
600 mm Skeleton Bay accommodates up to 12 modules	2200 x 600 x 475 mm (86.6" x 23.6" x 18.7")	IBR-D3C001

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IBR-D3002  
Front View

IBR-D3002  
Side View



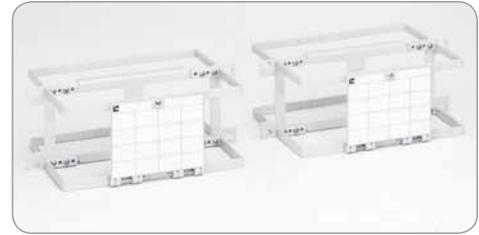
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## High-Density Configuration

### Features:

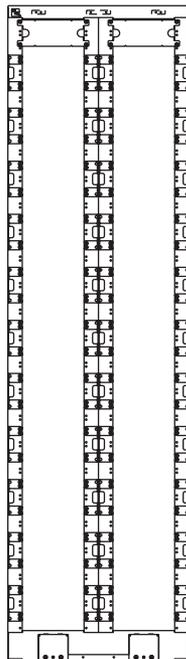
- Improved circuit density by 20%; 352 circuits in fully loaded bay
- Cable bars reduce cable congestion and simplify maintenance
- Circuit designation label door ensures proper cable routing and identification
- Bay equipped with four vertical cabling channels, cable troughs, and equipment cable tie-down bars for high density cable management
- Zone 4 earthquake-rated equal-flange rack with EIA mounting spacing



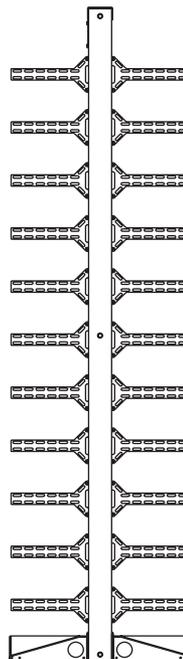
D3C-0016HD  
Front View

### Ordering Information

Description	Dimensions (HxWxD)	Ordering Number
Unloaded Pair of Dual Chassis accommodates up to 16 modules in two, eight-position chassis	88 x 236 x 165 mm (3.5" x 9.3" x 6.5")	D3C-0016HD
600 mm Dual Skeleton Bay accommodates up to 11 dual chassis	2200 x 600 x 250 mm (86.7" x 23.6" x 23.6")	IBC-D3C001



IBC-D3001  
Front View



IBC-D3001  
Side View

1 2 / 0 6 • 1 0 3 9 7 8 A E Digital Monitor Module System



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## Wall-Mount Box

### Features:

- Used as a demarcation point when NEs are supplied by the service provider and by the customer premises
- Separate locks on each door secure connections from unwanted access



D3C-WBOX06  
Front View

### Ordering Information

Description	Dimensions (HxWxD)	Ordering Number
Unloaded Wall-Mount Box accommodates up to 6 modules	267 x 203 x 114 mm (10.5" x 8" x 4.5")	D3C-WBOX06

Note: Modules are ordered separately

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## Specifications

### ELECTRICAL

**Insertion Loss**

Better than -.5 dB, 100 KHz to 100 MHz

Better than -.8 dB, 100 MHz to 300 MHz

**Return Loss:**

Better than -20 dB, 100 KHz to 300 MHz

**Monitor Loading Effect:**

< .4 dB change in insertion loss to 300 MHz

**Monitor Level:**

21.5 ± 1.5 dB, 100 KHz to 300 MHz

**Isolation:**

< -55 dB at 22.368 MHz

**Cross Talk:**

< -55 dB at 22.368 MHz

**Phase Delay**

< 4 nanoseconds to 300 MHz

**Pulse Template:**

Conform to CCITT Recomm. G.703

### MECHANICAL

**Retention Force:**

7 lbs. minimum

**Retention Torque:**

4" per lbs. minimum

### ENVIRONMENTAL

**Thermal Shock:**

-40°C to +60°C operating

-55°C to +85°C non-operating

**Moisture Resistance:**

0% to 95%

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