

# DMM-4DC DIGITAL MIXING MODULE

RS-232



## FEATURES / BENEFITS

- ✓ Interface - EIA RS-232, CCITT V.24, DB-25 Female Connectors
- ✓ Data Rates - Synchronous or Asynchronous to 128Kbps
- ✓ Anti-Streaming - Automatic or Manual for unattended Circuit Restoral
- ✓ DCE/DTE Selectable
- ✓ Tail Circuit Buffer
- ✓ Supports CSU/DSU's, LL Modems, Dial Modems and Terminals
- ✓ RTS/CTS delays options
- ✓ Transparent to Data
- ✓ Fully Cascadable
- ✓ Internal or External Clocking
- ✓ Sturdy Metal Rackmount Enclosure
- ✓ -36 to -72 DC Input

## DESCRIPTION

The RS-232 Digital Mixing Module (DMM-4DC) is a network expansion device for modem sharing or port sharing applications in polled or contention environments. The DMM-4DC allows up to four devices to share a modem / DSU or computer port. The port contention modes are RTS, DCD or switch on Data. Any combination of terminals and modems may be used in a network environment. Each port of the DMM-4DC may be selected as a DCE or DTE interface. Once installed, system and network efficiency are increased through higher host processor utilization coupled with the significant decrease in idle time between host / terminal traffic sessions.

Ideal for either synchronous or asynchronous network environments, the DMM-4DC is protocol transparent at data rates up to 128Kbps. The DMM-4DC may be configured to provide clocking for the entire network. To prevent data transmission errors caused by clock differentials throughout a synchronous network, a 8 bit ring buffer is provided for re-synchronization. In applications where the master port and the selected port provide their own clocks, data is clocked into the buffer at the receive clock rate of the active port and clocked out using the master port transmit clock.

In applications where the Clear To Send (CTS) control signal is not provided by the master port, an option for forced CTS is available via 3-position stick headers. Additionally, several user defined RTS/CTS delay settings are available.

The DMM-4DC also provides optional Anti-Streaming circuitry. Once enabled, Anti-Streaming will automatically remove a defective terminal or modem from service if the Data / Control criteria is present for the user predefined selection period.

The DMM-4DC is housed in a sturdy aluminum standalone or rackmount enclosure. The unit is equipped with an internal -48 VDC power supply and will provide in excess of 315,419 hours of reliable service. All RS-232 data ports and the power supply have surge protection that utilize Sidactors.



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# SPECIFICATIONS

## Application

Multiple Sync/Async DCE/DTE devices operating in a polled or contention environment, to share one DCE/DTE port

## Capacity

Main Input: One RS-232 Port Subchannel Ports: One to Four RS-232 Sync/Async devices

## Interface

EIA RS-232-D, CCITT V.24 using DB-25 female connectors, selectable as DCE or DTE interface

## Data Rates

Internal Select: 450bps to 76.8Kbps External: Up to 128Kbps

## Data Format

Data transparent at all data rates

## Timing Options

Internal  
External: via Input Master Port  
External: Telco Timing via Port 1

## Anti-Streaming

Automatic: Selectable time-out intervals  
Disable: Selectable via dip switch

## Terminal Service Modes

Sequential scanning for RTS or DCD control signal, option for switch on RXD Data(JP6-JP9)

## Clear To Send

Allows normal RTS/CTS handshaking or has option for Forced CTS on Ports 1-4 (JP1-JP4)

## RTS To CTS Delay

Selectable RTS to CTS delays of 0, 5, 10 and 20ms

## Front Panel

Indicators: Power, Transmit Data, Receive Data, Channel Active, Channel Stream  
Switches: Enable/Disable of each Sub-channel

## Power Source

DC Voltage, Input Range of -36 to -72vdc Current Draw at 48vdc: 75ma @ 3.6watts

## Regulatory Approvals Tested According To

UL 60950-1:2003, CAN/CSA-C22.2 No. 60950-1:2003  
CE Safety EN60950 and CE EMC EN300-386-2

## MTBF

315,419  
Telecordia Issue 1

## Environmental

Operating Temperature: 32° to 122° F (0°to 50° C)  
Relative Humidity: 5 to 95% Non-Condensing  
Altitude: 0 to 10,000 feet

## Dimensions

Height: 1.75 inches (4.44 cm)  
Width: 17.00 inches (43.18 cm)  
Length: 9.00 inches (22.86 cm)

## Weight

4.5 pounds (2.1Kg)

## Warranty

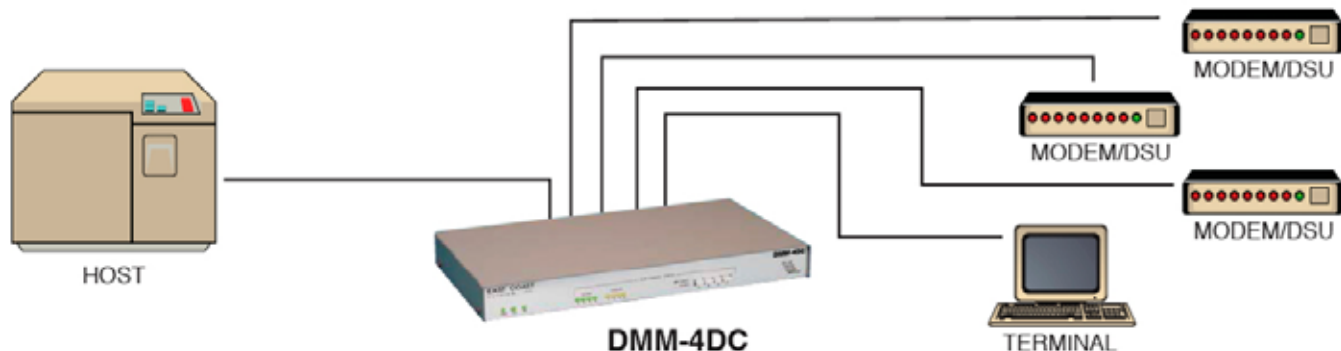
Three Years, Return to Factory

## ORDERING INFORMATION

Part Number: 106000  
Model: DME  
Description: Digital Multidrop Extender

For further detailed technical information on this product, contact East Coast Datacom Technical Assistance toll free at (800) 240-7948

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DATA COMMUNICATION EQUIPMENT FOR YOUR  
NETWORK REQUIREMENTS.



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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## EAST COAST DATACOM, INC.

245 Gus Hipp Boulevard, STE 3 • Rockledge, FL 32955-4812 U.S.A.

TEL: (321) 637-9922

WEB SITE: [www.ecdata.com](http://www.ecdata.com)

FAX: (321) 637-9980