

# MSD-4

PT# 101012

PT# 101030



## FEATURES / BENEFITS

- ✓ Interface - EIA RS-232, CCITT V.24, DB-25 Female Connectors
- ✓ Data Rates - Synchronous or Asynchronous up to 64Kbps
- ✓ Anti-Streaming - Automatic or Manual for unattended Circuit Restoration
- ✓ Individual Subchannel Enable/ Disable Switches
- ✓ Visual Indication of Subchannel Activity
- ✓ Receive Data - Broadcast to all Subchannels
- ✓ Transparent to Data
- ✓ Fully Cascadable
- ✓ External Clocking
- ✓ Sturdy Metal Enclosure
- ✓ 110/220VAC Switch Selectable
- ✓ +/- 15KV ESD Protection

## DESCRIPTION

The MSD-4, RS-232 Modem Sharing Device provides the network manager with a cost effective means of expanding existing, leased line polled networks without adding computer ports or communications links. With the MSD-4, up to four terminals can share the same port and communications link using the contention and control protocols normally resident in the host hardware and software. 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 MSD-4 is protocol transparent at data rates up to 128Kbps. Data arriving at the Master Port is continually broadcast to all Subchannels. The attached terminal device that raises the RTS control signal is automatically given control of the MSD until data transmission is complete. Clocking is accomplished from the attached Modem.

The MSD-4 incorporates optional Anti-Streaming circuitry. If enabled, Anti-Streaming will automatically remove a defective terminal from service if the Data / Control criteria is present for the user predefined selection period.

Housed in a sturdy metal enclosure and equipped with an internal 110/220VAC switch selectable linear power supply, the MSD-4 will provide in excess of 100,000 hours of reliable service.

The MSD-4 have a 3-year warranty and a 24 hour turnaround on warranty repairs.



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# SPECIFICATIONS

## Application

Multiple sync/async terminal or DTE devices operating in a polled environment, to share one Modem.

## Capacity

One to four RS-232 Sync/Async devices

## Interface

EIA RS-232, CCITT V.24 using DB-25 female connectors

## Data Rates

Up to 64Kbps

## Data Format

Data transparent at all data rates

## Timing

External; from attached Modem

## Handshaking

RTS / CTS

OR-MODE (Switch on Data)

## Anti-Streaming

Automatic...Selectable time out intervals

Disable.....Selectable via dip switch

## Terminal Service Modes

Rotational sequence for equal access

Priority Mode Optional

## Front Panel

Indicators: Power, CTS, DCD, RXD, TXD  
Channel Active

Switches: Enable/Disable of each Sub-channel

## Power Source

100-120 to 200-220VAC @10%, 50/60Hz, 0.16/0.08A,  
external 110/220 volt select switch, IEC Power Inlet, (2)  
5mm Fuses

## Dimensions

MSD-4 Alternate Chassis

Height ..... 2.53 inches (6.426 CM)

Width ..... 12.13 inches (30.810 CM)

Length ..... 11.13 inches (28.270 CM)

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Height ..... 1.75 inches (6.426 CM)

Width ..... 17.00 inches (43.180 cm)

Length ..... 11.50 inches (29.210 CM)

## Weight

6 pounds (2.72Kg)

## MTBF

601,328 Hours

Benign Ground, Controlled, Telcordia Issue 1

## Approvals

EMI Approvals

FCC 47CFR, Part 15, Subpart B for conducted emissions  
from a Class A

FCC 47CFR, Part 15, Subpart B for radiated emissions  
from a Class A

## Safety Approvals

UL 62368

## Electric Discharge Approval

IEC EN-61000-4-2

## Environmental Testing Approvals

Operating Temperature: 50° to 160° F (10° to 60° C)

Operational Alt.: 0 to 2000 Meters above sea level

Operational Relative Humidity: 10% to 80%

Non-Operational Temperature: -30 degC to 70 degC

Non-Operational Alt.: 0 to 50,000 feet above sea level

## Ordering Information

PT# 101012

Model: MSD-4

Description: 4-Port RS-232 Sharing Device, Standalone

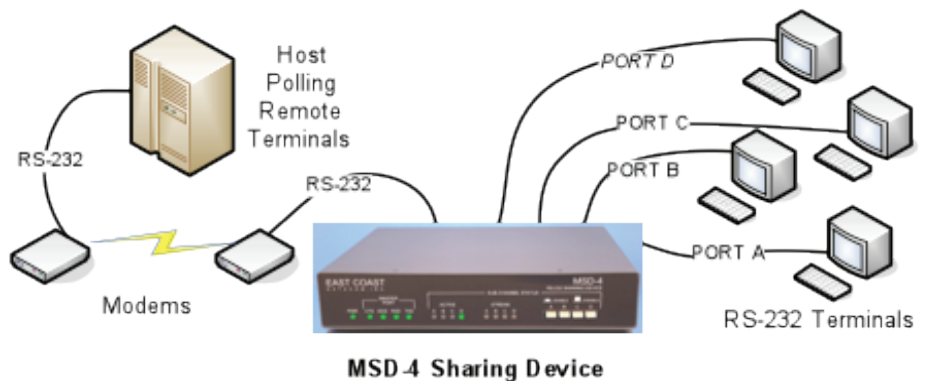
PT# 101030

Model: MSD-4

Description: 4-Port RS-232 Sharing Device,  
1U Rackmount

## INCLUDED WITH EACH UNIT:

- 1) Operations Manual
- 2) U.S.A. Grounded Power Cord, Part # 713015
- 3) Optional Power Cords
  - A) United Kingdom, Part # 713016
  - B) Continental Europe, Part # 713017
  - C) Other: Specify Country on Purchase Order



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