UDC-ME

RS-422
Modem Eliminator

FEATURES / BENEFITS

√ **Interface - EIA RS-422/449, V.11 compliant with DB-37 Female Connectors**

√ **Data Rates - 1.2k to 3.072M - 32 Selectable Rates**

√ **Serial Data Interface cards are Interchangeable and may be mixed such as RS-422 to RS-232**

√ **Controls for RTS/CTS delay, DSR, DTR on a per port basis**

√ **Timing - Internal**

√ **Status LED's for each and Signal**

√ **110/220VAC switch selectable or DC Power for -48VDC**

√ **UL, CSA and CE Approved, RoHS**

√ **Sturdy Metal Aluminum Enclosure**

DESCRIPTION

The UDC-ME RS-422 modem eliminator allows router to router testing, located within proximity of each other via the router RS-422 serial ports. The UDC-ME transmits data bi-directionally at clock rates of 1.2k up to 3.072Mbps between DTE devices. All clocking and signal crossover are provided within the UDC-ME. The unit is equipped with two interface slots that allow a host of serial interface cards to be utilized. The serial interface cards available are RS-232, RS-422/449, RS-530, X.21, V.35 and HSSI. The Serial Interface cards are interchangeable and may be mixed such as RS-232 to V.35 thus eliminating the need for an interface converter or changing expensive serial cards on a DTE device such as a router.

The UDC-ME RS-422 modem eliminator is also an excellent choice for testing router-to-router connections via the serial ports. The unit is an excellent choice for interconnecting your LAN or legacy mainframe equipment.

Installation is fast and simple by setting the internal switches for Clocking, Carrier Operation and RTS to CTS delay. The UDC-ME has status LED's for each attached DTE device which allows the user to visually confirm the presence of clock and control signals.

The UDC-ME utilizes state of the art digital CMOS technology to provide a feature filled product at a very affordable price. Our Field Programmable Gate Array (FPGA) design has allowed us to offer this product with a wide selection of clock rates. This design approach has also reduced the amount of clock jitter for high speed transmissions.

The UDC-ME is housed in a sturdy metal enclosure and operates on 110/220VAC or optional -48V DC power. Typical MTBF figures are in excess of 150,000 hours of operation.

The UDC-ME has a three year warranty and a 24 hour turnaround on warranty repairs.
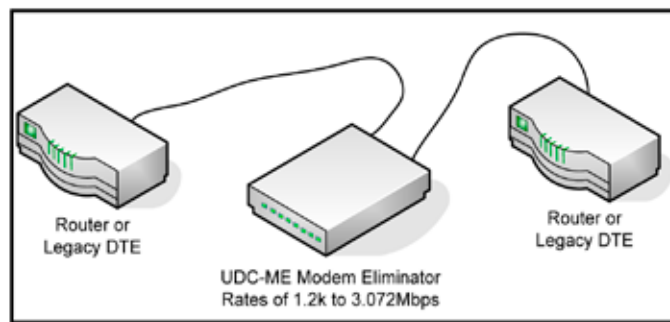
Figure 1 - TYPICAL APPLICATION

EAST COAST DATACOM, INC.

SPECIFICATIONS

Application
Interconnection of two DTE (Terminal) devices located within proximity of each other

Capacity
Two (2) DTE's

Serial Data Interface
RS-422/449, X.21 or RS-232, RS-530, V.35 and HSSI

Data Format
Data Transparent at all Data Rates

Data Rates
1.2k, 2.4k, 4.8k, 7.2k, 9.6k, 14.4k, 16k, 19.2k, 28.8k, 32k, 38.4k, 48k, 56k, 57.6k, 64k, 72k, 96k, 128k, 192k, 256k, 384k, 512k, 768k, 1.024M, 1.280M, 1.472M, 1.536M, 1.544M, 1.920M, 1.984M, 2.048M, 3.072M

Indicators
POWER, TXD, RXD, TXC, RXC, RTS, CTS, DTR, DCD

Surge Protection
Main power supply

Power Source
AC Mains: 100-120 to 200-220VAC @10%, 50/60Hz, 0.16/0.08A, external 110/220 volt select switch, IEC Power Inlet, (2) 5mm Fuses
DC Mains: DC Voltage, Input Range of -36 to -72vdc
Current Draw at 48vdc: 75ma @ 3.6watts

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

Dimensions
Height .... 1.75 inches (4.44 cm)
Width .... 9.00 inches (20.86 cm)
Length ...... 9.00 inches (20.86 cm)

Weight
2 pounds (0.914Kg)

Warranty
Three Years, Return To Factory

ORDERING INFORMATION

PT # 189000 – (Small Chassis)
Model: UDC-ME Base Standalone Unit
Description: UDC Modem Eliminator, Standalone, Rates 1.2k to 3.072Mbps

PT # 200000 – (1U Rackmount)
Model: UDC-ME 1U Rackmount Unit
Description: UDC Modem Eliminator, 1U Rackmount, Rates 1.2k to 3.072Mbps

PT # 246000 – (1U Rackmount)
Model: UDC-ME High Speed
Description: UDC Modem Eliminator, High Speed, 1U Rackmount, Rates 3.2k to 8.192bps

Serial Interface Cards, **Two Cards Required** Per UDC-ME, pick any two cards, may be the same card twice or any combination.

PART NUMBER	SERIAL CARD DESCRIPTION
129014	RS-232 DCE I/M, DB-25 Female
129010	V.35 DCE I/M, MR-34 Female
129011	RS-530 DCE I/M, DB-25 Female
129012	RS-422/449 DCE I/M, DB-37 Female
129013	X.21 DCE I/M, DB-15 Female
151028	HSSI DCE I/M, 50 Pin Female

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

OPTIONAL ACCESSORIES
1) Spare Data Center Fuses
   A) 160ma Fuse, Qty (2) Part # 714000
   B) 80ma Fuse, Qty (2) Part # 714001

For further detailed technical information on this product, contact East Coast Datacom, Inc at:
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