

# UDC-ME

## Modem Eliminator



### FEATURES / BENEFITS

- ✓ Interface - RS-232, RS-422/449, RS-530, V.35, X.21, HSSI
- ✓ Data Rates - 1.2k to 3.072Mbps - 32 Selectable Rates
- ✓ Serial Data Interface cards are Interchangeable and may be mixed such as RS-232 to V.35
- ✓ Options for Inverted Data or Clock
- ✓ Controls for RTS/CTS delay, DSR, DTR on a per port basis
- ✓ Timing - Internal
- ✓ Status LED's for each Serial Port 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 allows two DTE devices (such as routers) to communicate within proximity of each other. 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 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. Also included are options for data or clock inversion.

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.

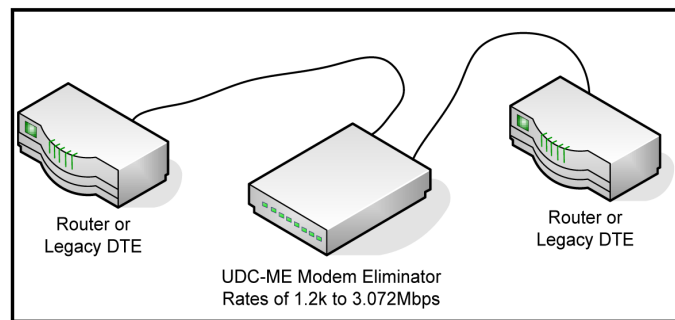


Figure 1 - TYPICAL APPLICATION

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# SPECIFICATIONS

## Application

Interconnection of two DTE's (such as Routers) located within proximity of each other

## Capacity

Two (2) DTE's

## Serial Data Interface

RS-232, RS-422/449, RS-530, X.21, V.35 and HSSI

## Data Format

Data Transparent at all Data Rates

## Inversion Options

Data Inversion or Clock Inversion

## Selectable Clock 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....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 ..... 9.00 inches (20.86 cm)  
Length ..... 9.00 inches (20.86 cm)

## Weight

2 pounds (0.914Kg)

## Warranty

Three Years, Return To Factory

## Regulatory Approvals

UL 60950-1, 2nd Ed 2007; CAN/CSA 22.2 No. 60950-1-07; EN 60950-1:2006; EN 55022:2006;

## 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

### Optional DC Supply

Part Number: 184018

Model: UDC-DC -36 to -72 DC Power Supply

### 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

For further detailed technical information on this product, contact East Coast Datacom, Inc at: [support@ecdata.com](mailto:support@ecdata.com)

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