

# UDC-IC

## Interface Converter



### FEATURES / BENEFITS

- ✓ Interface - RS-232, RS-422/449, RS-530, V.35, X.21, HSSI, RS-485 and Current Loop
- ✓ Data Rates - Up to 10Mbps
- ✓ Serial Data Interface cards are Interchangeable and any combination of DCE-to-DTE may be utilized such as RS-232 to V.35, V.35 to X.21 ect...
- ✓ Supports Synchronous or Asynchronous Data
- ✓ Options for Inverted Data or Clock
- ✓ Control Signals may be Forced on a per Port Basis
- ✓ Timing - Accepts External from attached DCE
- ✓ Status LED's for each Serial Port and Signal
- ✓ 110/220VAC switch selectable or DC Power for -48VDC
- ✓ UL, CSA and CE Approved, RoHS

### DESCRIPTION

The UDC-IC allows the user to purchase a single product to convert interfaces between any combination of RS-232, RS-422/449, RS-530, V.35, X.21, HSSI, RS-485 TTL and Current Loop. The unit supports data rates up to 10Mbps.

The UDC-IC has two TTL level interfaces for connecting each data interface. The unit is shipped with any two user specified data interfaces included in the price. Additional data interfaces are sold separately. The individual data interfaces are available in DCE or DTE formats. Each data interface has the ability to force commonly used control signals such as RTS, CTS, DSR, DTR, Ring Indicate, Control and Indicate.

The data interfaces may be mix and matched in any combination. Installation is fast and simple by plugging the DTE interface card into Port B and the DCE interface card into Port A. In all installations, Port B will always provide timing to Port A.

The UDC-IC has status LED's for each attached data interface which allows the user to visually confirm the presence of control signals. Options for inverting data, clock and delays for RTS or CTS.

The UDC-IC 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 data interfaces.

The UDC-IC is housed in a sturdy metal enclosure and operates on 110/220VAC.

The UDC-IC has a three year warranty and a 24 hour turnaround on warranty repairs.

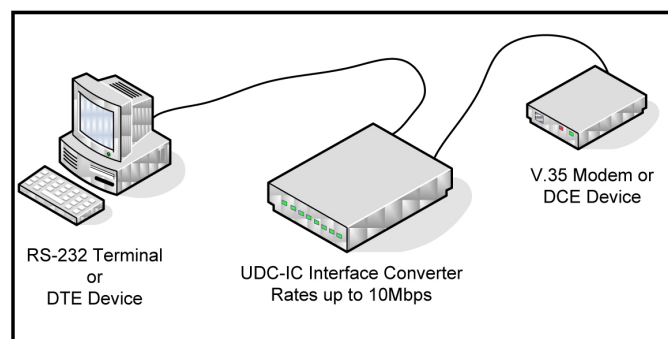


Figure 1 - TYPICAL APPLICATION

**EAST COAST DATACOM, INC.**

# SPECIFICATIONS

## Application

Allows interconnection of a DCE and a DTE device which have different data interfaces, converting signal levels and the physical data interface

## Capacity

One DCE and one DTE

## Serial Data Interface

Available in V.35, RS-530, RS-422/449, RS-232, X.21, HSSI, TTL, RS-485 and Current Loop

\* other interfaces available by special order

## Data Format

Synchronous or Asynchronous  
Data Transparent at all Data Rates

## Inversion Option

Data Inversion or Clock Inversion

## Data Rates

Up to 10Mbps

## 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; FCC Pt 15/ICES-003 Class A

## ORDERING INFORMATION

Main Unit Part Number: 190000

Model: UDC-IC

Description: UDC-IC Interface Converter, 110/220VAC

Serial Interface Cards, **Two Cards Required Per UDC-IC**, pick one DCE and one DTE card.

PART NUMBER	SERIAL CARD DESCRIPTION
129014	RS-232 DCE I/M
129032	RS-232 DTE I/M
129010	V.35 DCE I/M
129028	V.35 DTE I/M
129011	RS-530 DCE I/M
129029	RS-530 DTE I/M
129012	RS-422 DCE I/M
129030	RS-422 DTE I/M
129013	X.21 DCE I/M
129031	X.21 DTE I/M
129057	TTL I/M
129070	RS-485 I/M
129080	Current Loop

## 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
  - 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: [support@ecdata.com](mailto:support@ecdata.com)

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