

# UDC-IC

## RS-232 to Current Loop INTERFACE CONVERTER



### FEATURES / BENEFITS

- ✓ Interface – RS-232 and Current loop, DCE or DTE, Male or Female Gender Connectors
- ✓ Data Rates - Up to 128Kbps
- ✓ Supports Synchronous or Asynchronous Data
- ✓ Transparent to Data
- ✓ Bi-Directional Transmission
- ✓ Serial Data Interface cards are Interchangeable and any combination of DCE-to-DTE may be utilized
- ✓ Control Signals may be Forced on a per Port Basis
- ✓ Timing - 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
- ✓ Sturdy Aluminum Enclosure

### DESCRIPTION

The UDC-IC is designed to provide signal level conversion between RS-232 and Current Loop equipment. The unit supports data rates up to 128Kbps.

The UDC-IC has two TTL level interfaces for connecting each data interface. The unit is shipped with any two user specified 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.

The UDC-IC utilizes state of the art digital CMOS technology to provide a feature filled product at a very affordable price.

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.

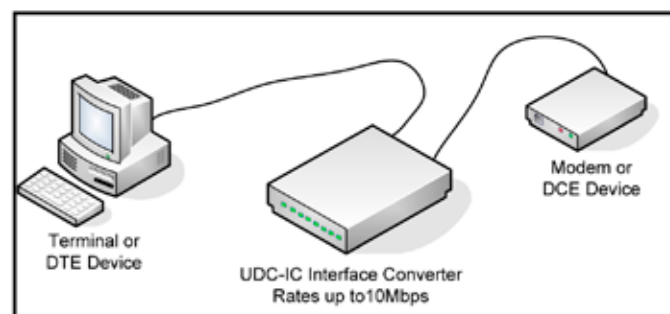


Figure 1 - TYPICAL APPLICATION

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# 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

EIA RS-232 and Current Loop

## Data Format

Synchronous or Asynchronous  
Data Transparent at all Data Rates

## Data Rates

Up to 128Kbps

## 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 60950-1:2003, CAN/CSA-C22.2 No. 60950-1:2003FCC Part 15, EN55022:2006, 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, may be the same card twice or any combination..

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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