

# UDC-RA

## Async to 16k Sync Rate Adapter



### FEATURES / BENEFITS

- ✓ Allows low speed Terminals to access 16Kbps sync circuits such as radio modems or muxes
- ✓ Interface - Supports any combination of RS-232, RS-530, RS-422/449, V.35 and X.21
- ✓ Serial Data Interface cards are Interchangeable and may be mixed such as RS-232 to V.35
- ✓ Data Rates - 1.2k, 2.4k, 4.8k, 7.2k, 9.6k - Sync channel is set at 16kbps
- ✓ Options to force control signals
- ✓ Supports option RTS in-band to DCD with the Data
- ✓ Supports Async or Sync data from Terminal Device
- ✓ AC Mains powered 110/220 VAC or DC Power
- ✓ Sturdy Metal Aluminum Enclosure

### DESCRIPTION

The UDC-RA Rate Adapter allows low speed asynchronous Terminal (DTE) equipment to transmit over a 16k synchronous Modem(DCE). The UDC-RA devices are used in pairs, one at each end of the communications link or in multiples as when used in a multi-point or broadcast communications link. The UDC-RA will support bi-directional or simplex data transmissions.

The UDC-RA supports Async character lengths of 8, 9, 10 and 11 bits, including the start and stop bit. The asynchronous interface is typically RS-232 and supports data rates of 1.2k, 2.4k, 4.8k 7.2k, and 9.6k. The unit also support Sync data on the low speed channel. The synchronous data interface rate supports 16Kbps and the channel must be a clear data channel with no status bits.

The UDC-RA has internal switch options to force control signals. Additionally, the user may set RTS to be in-band with the data to DCD. This is useful for networks that have no control signals passed.

The UDC-RA is housed in a sturdy aluminum enclosure and is supplied with an internal linear power supply. The unit has a 110/120 VAC rotary select switch located on the rear of the housing. The unit can operate on standard power found in all countries.

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

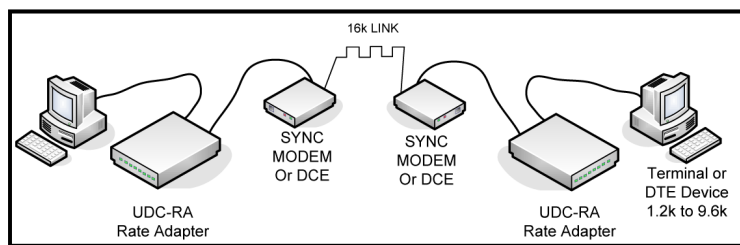


Figure 1 - TYPICAL APPLICATION

# SPECIFICATIONS

## Application

Interconnection of a low speed terminal or DTE device to a synchronous 16k clear channel modem or DCE device

## Capacity

One terminal(DTE) and one modem(DCE)

## Rear Panel Serial Data Interface

Any DCE-to-DTE Combination of RS-232, RS-422/449, RS-530, X.21 and V.35

## Data Format

Data Transparent at all Data Rates

## Selectable Clock Rates

1.2k, 2.4k, 4.8k, 7.2k, 9.6k

## Control Signal Options

Forced ON, OFF or Follows itself  
RTS, CTS, DTR, DSR or DCD

## Control Signal In-Band

Strap option RTS in-band to DCD with the Data

## Front Panel Indicators

POWER and each data channel has: TXD, RXD, TXC, RXC, RTS, CTS, DTR, DCDy

## 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: 185000

Model: UDC-RA

Description: UDC 16k Rate Adapter, 110/220VAC

Serial Interface Cards, **Two Cards Required**

Per UDC-RA, pick one DCE and one DTE card.

PART NUMBER	SERIAL CARD DESCRIPTION
129014	RS-232 DCE I/M (connect to DTE)
129032	RS-232 DTE I/M (connect to DCE)
129010	V.35 DCE I/M (connect to DTE)
129028	V.35 DTE I/M (connect to DCE)
129011	RS-530 DCE I/M (connect to DTE)
129029	RS-530 DTE I/M (connect to DCE)
129012	RS-422/449 DCE I/M (connect to DTE)
129030	RS-422/449 DTE I/M (connect to DCE)
129013	X.21 DCE I/M (connect to DTE)
129031	X.21 DTE I/M (connect to DCE)
129057	TTL I/M
129070	RS-485 I/M

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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