UDC-RA

Universal Data Converter – Rate Adapter

FEATURES / BENEFITS

√ **Allows low speed Terminals to access 16K, 64k or 128k 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**

√ **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**

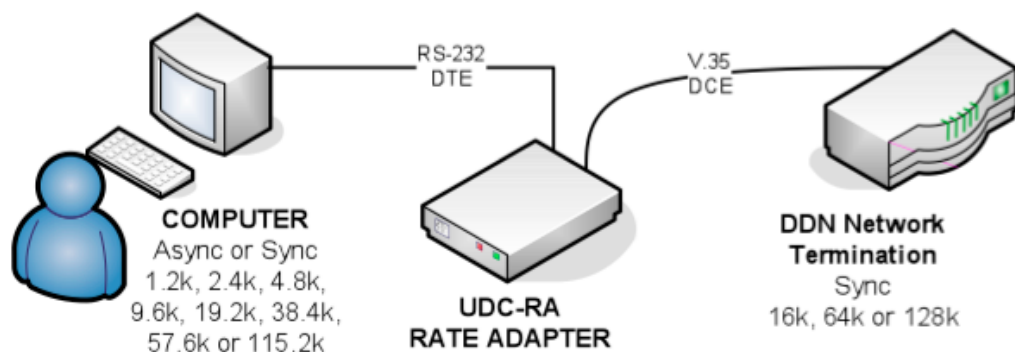√ **Sturdy Metal Aluminum Enclosure**

DESCRIPTION

The UDC-RA Rate Adapter allows low speed async or sync RS-232 data terminal equipment(DTE) to transmit over a higher speed 16k, 64k or 128k sync data communication equipment(DCE) link. Additionally, the unit supports matched data rates for basic Async to Sync conversion such as 19.2k async over sync 19.2k. 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 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 low speed async interface is RS-232 and supports data rates of 1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k, 57.6k and 115.2k. The high speed sync data interface supports rates of 16k, 64k or 128k and must be a clear channel with no overhead status bits being passed. The sync channel supports data interfaces for V.35, RS-530, RS422/449 and X.21.

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, DSR or CTS. This is useful for networks that have no control signals passed. Extended Signal Rate(ESR) is provided to ensure the async input data rate matches the sync output data rate, ensuring reliable data communications.

The UDC-RA has two TTL level interfaces for connecting each data interface module. The unit is shipped with two user specified data interfaces. Additional data interfaces are sold separately. The individual data interfaces are available in DCE or DTE formats.

The UDC-RA is housed in a sturdy aluminum enclosure and is supplied with an internal linear power supply for 110/220VAC. The unit has a three year warranty and a 24 hour turnaround on warranty repairs

EAST COAST DATACOM, INC.

SPECIFICATIONS

Application
Interconnection of low speed Async terminal or DTE device to a sync 16k, 64k or 128k clear channel modem or DCE device

Capacity
One DCE and one DTE

Serial Data Interface
Available in V.35, RS-530, RS-422/449, RS-232, X.21, HSSI, TTL
* other interfaces available by special order

Data Format
Synchronous or Asynchronous
Data Transparent at all Data Rates

Data Rates
ASYNC: 1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k, 57.6k and 115.2k
SYNC: 16k, 64k, and 128k

Indicators
POWER(PWR), 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
3 pounds (1.36Kg)

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: 192000
Model: UDC-RA
Description: UDC-RA 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
	PORT A ASYNC CARDS
129014	RS-232 DCE I/M, Male DB-25
	PORT B ASYNC CARDS
129028	V.35 DTE I/M, Male MR-34
129029	RS-530 DTE I/M, MaleDB-25
129030	RS-422 DTE I/M, Male DB-37
129031	X.21 DTE I/M, Male DB-15
129057	TTL I/M, 2-In & 2-Out BNC 75Ohm
	Optional V.35 Connectors
151038	V.35 DTE I/M, Female DB-25

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:
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