

FEATURES / BENEFITS

- √ Interface 50 Ohm BNC
- √ Input Single 10 Mhz Sine Wave
- √ Output Four Ports, 10 MhzSquare Wave
- √ One In, Four Out Converter / Splitter
- √ Low Signal Level Detector Circuit
- √ 110/220VAC or DC Voltage Supply Option
- √ CE Approved, RoHS Compliant
- **√** Sturdy Aluminum Enclosure

DESCRIPTION

The *UDC-IC 10 MHz Clock Converter* is intended to accept a standard 10 MHz sinusoidal reference signal, convert it to a typical 5V TTL-level output, and distribute this output to 4 separate devices over individual coax cables.

Each cable driver element is designed to launch a signal through a 50-ohm series termination. With a single high-impedance load at the end of the 50-ohm cable, the load will see the incident signal as a square wave. Reflections back to the source are absorbed for the most part by the series termination in combination with the low-impedance driver.

If the 10Mhz Input Sine Wave is within tolerance, the front panel *CLK* and *DCD* LED Indicators will be green. If the 10Mhz Input signal is out of tolerance the *CLK* and *DCD* LED indicators will *not be illuminated*.

The 10MHz receiver card is also equipped with a *low signal level detector circuit* that cuts off the converter to prevent compromised clock signals from reaching downstream equipment. This will normally happen when the input signal falls below the minimum +5 dBm level. The front panel indicator, *DCD* will be on when an input signal of sufficient level is seen, and off when the cut-off circuit senses a low level or absent input.

The UDC-IC 10Mhz Clock Converter is simple to use by connecting a 50-ohm Coax Cable to the *10Mhz Sine Wave INPUT* marked *PORT B* located on the rear panel. Then connect from one to four 50-ohm Coax Cables to the OUTPUT ports 1-4 located in PORT A.

The front panel LED marked PWR, CLK and DCD should be illuminated. If the CLK and the DCD LED's are not illuminated, the UDC-IC 10Mhz Clock Converter is not receiving a good 10Mhz Sine wave.

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

SPECIFICATIONS

Application

Interconnection of two 10 Mhz systems for sine wave to square wave clock distribution

Capacity

One Input, Four Outputs

Rear Panel Data Interface

One: 10Mhz Sine Wave Input Four: 10Mhz Square Wave Outputs

Data Format

Data Transparent at all Data Rates

Data Rates

10Mhz

Front Panel Indicators

POWER and each data channel has DCD and CLK

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)
(1U Rack mount Optional Chassis Avail.)

Weight

3 pounds (1.36Kg)

Warrantv

Three Years, Return To Factory

Regulatory Approvals

UL 60950-1:2003, CAN/CSA-C22.2 No. 60950-1:2003, FCC 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

Part Number: 129105 Model: TTL-4 I/M

Description: 4-PORT TTL 50-ohm Driver Interface

Module

Part Number: 129109 Model: 10Mhz I/M

Description: 10Mhz Receiver/Buffer Interface Module

PART NUMBER	SERIAL CARD DESCRIPTION
129109	10Mhz Receiver/Buffer I/M, 50 Ohm
129105	4-Port TTL Driver I/M, 50 Ohm
	OPTIONAL CARDS FOR OUTPUT
129010	V.35 DCE I/M
129011	RS-530 DCE I/M
129012	RS-422 DCE I/M
129013	X.21 DCE I/M

Optional 1U Rack Mount Chassis

Part Number: 204000

Model: UDC-IC Rackmount

Description: Rackmount UDC-IC Main Unit,

110/220VAC

INCLUDED WITH EACH UNIT:

- 1) Operations Manual
- 2) Grounded Power Cord

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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