**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....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)
(1U Rack mount Optional Chassis Avail.)

Weight
3 pounds (1.36Kg)

Warranty
Three Years, Return To Factory

Regulatory Approvals

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

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>SERIAL CARD DESCRIPTION</th>
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<tbody>
<tr>
<td>129109</td>
<td>10Mhz Receiver/Buffer I/M, 50 Ohm</td>
</tr>
<tr>
<td>129105</td>
<td>4-Port TTL Driver I/M, 50 Ohm</td>
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OPTIONAL CARDS FOR OUTPUT

<table>
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<tr>
<th>PART NUMBER</th>
<th>SERIAL CARD DESCRIPTION</th>
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<tbody>
<tr>
<td>129010</td>
<td>V.35 DCE I/M</td>
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<tr>
<td>129011</td>
<td>RS-530 DCE I/M</td>
</tr>
<tr>
<td>129012</td>
<td>RS-422 DCE I/M</td>
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<tr>
<td>129013</td>
<td>X.21 DCE I/M</td>
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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: support@ecdata.com