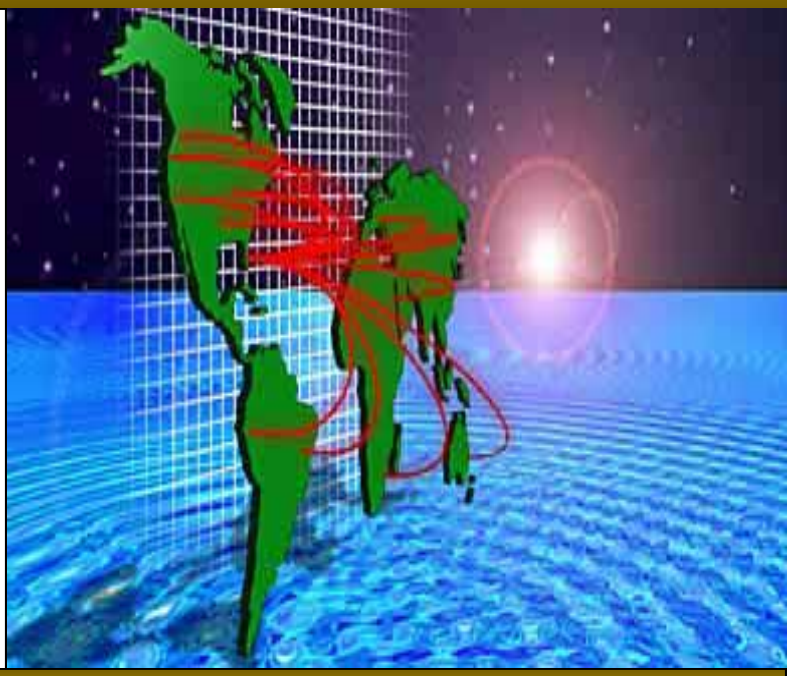
EAST COAST

DATACOM, INC.

GSA Contract Holder
Contract GS-35F-0187X

NETWORK EMULATION TEST EQUIPMENT AND DATA COMMUNICATION EQUIPMENT

- IP Packet Generators
- Network Latency Simulators
- Data Broadcast Units
- Serial Network Adapters
- Sync to IP Adapters
- Digital Sharing Devices
- TDM Multiplexers
- Interface Converters
- Code Operated Switch
- Remote Console Servers
- Custom Design Solutions



PRODUCTS FOR GLOBAL NETWORKS

East Coast Datacom, Inc.(ECD) is a customer-oriented, high technology enterprise which was formed in 1994 to design, manufacture and support Data Communication Equipment. ECD also manufactures a popular line of Network Emulation Test Equipment. Our product range consists of over 130 unique data communication products. Our products are utilized worldwide by fortune 500 companies and government agencies. In 2011 ECD completed and has obtained an active GSA Contract for direct purchase by government agencies.

NEW PRODUCT AVAILABLE AUGUST 2014 : EDS-10G, Ethernet Delay Simulator

The EDS-10G is an Ethernet Delay Simulator allowing users to test and stage critical network equipment adding delays and impairments over 10GbE or 10/100/1000G Ethernet. The unit is an excellent choice for validating and evaluating new products and technologies. The EDS-10G allows the user to accurately emulate bandwidth, latency, loss and congestion.

http://www.ecdata.com Tel: (321) 637-9922 Email: info@ecdata.com

Table of Contents

OUR CAPABILITIES

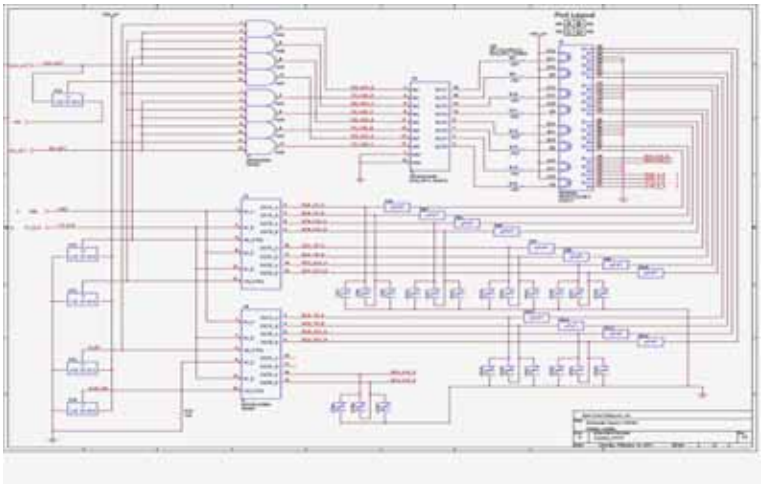
East Coast Datacom, Inc.(ECD) is committed to our customers needs for a quality product. We design to all common commercial design standards. We utilize the latest development tools including OrCAD, Allegro, AutoCAD and a custom written database management system documentation control and inventory management. All designs are to IPC standards and manufactured using ISO 9001/2008 standards.

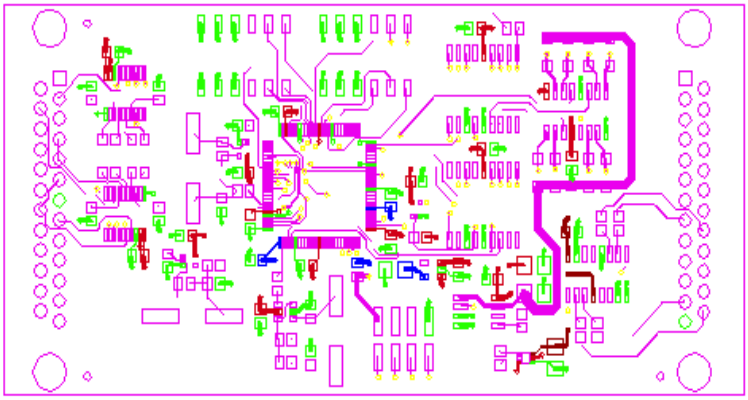
CUSTOMER
NEW PRODUCT
REQUIREMENT / IDEA
CONTACT ECDATA.COM

ECDATA.COM
TECHNICAL SPEC APPROVAL
DESIGN SCEMATIC, PC BOARD &
MECHANICAL, BILL OF
MATERIALS, TEST SPEC
QA REVIEW

ECDATA.COM
PRODUCE PROTOTYPE
CUSTOMER TESTING APPROVAL
DOCUMENTATION, QA APPROVAL
RECEIVE PURCHASE ORDER FOR
PRODUCTION, ORDER MATERIALS

ECDATA.COM
RAW GOODS TO PRODUCTION
PRODUCT PRODUCED & TESTED
QA FINAL INSPECTION
PRODUCT LABELED & BOXED
PRODUCT SHIPPED





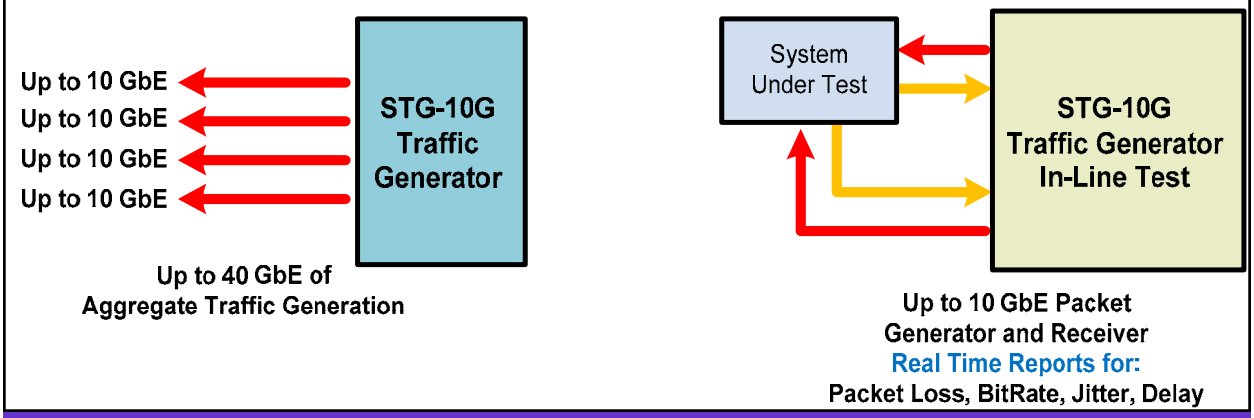
Designed & Produced to IPC Standards

ISO 9001/2008 & Lead Free RoHS Compliant

Stateful Traffic Generator®, STG-10G

STG-1G & STG-10 APPLICATION BLOCK DIAGRAMS:

1G to 10GbE IP Traffic Generator & IP Packet Checker



Supports 1GbE & 10GbE Rates, 40GbE Soon !

- **8-Ports 10/100/1000**
- **4-Ports 10GbE , Up to 40GbE of Aggregate Traffic**
- **IP Stateful Traffic Generation with real time Reports**
- **Emulation of Network Traffic to test device capabilities or QoS**
- **Network Monitoring, Analysis and Performance Test**
- **Reproduce traffic traces stored in PCAP files with Real Time Statistics**
- **Line Rate results for Half the Cost of FPGA Systems**
- **Embedded Easy to use GUI**

The Stateful Traffic Generator® model STG-10G is based on the well known traffic generation engine D-ITG™. The STG-10G is composed of a Graphical User Interface (GUI) that wraps the D-ITG™ engine, INTEL® DPDK Fast Packet Technology and other test tools. The STG-10G is capable of producing IPv4 and IPv6 traffic by accurately replicating the workload of current Internet or typical user applications. The platform supports 8-Ports 10/100/1000 and 4-Ports of 10GbE traffic generation managed via the easy to use GUI.

At the heart of the STG-10G is a powerful software design optimized for IP Stateful Traffic Generation running on Linux. The software is integrated with the INTEL® Data Plane Development kit openly known as DPDK for fast packet processing. The DPDK kit allows Line Rate performance even for tiny 64byte packets.

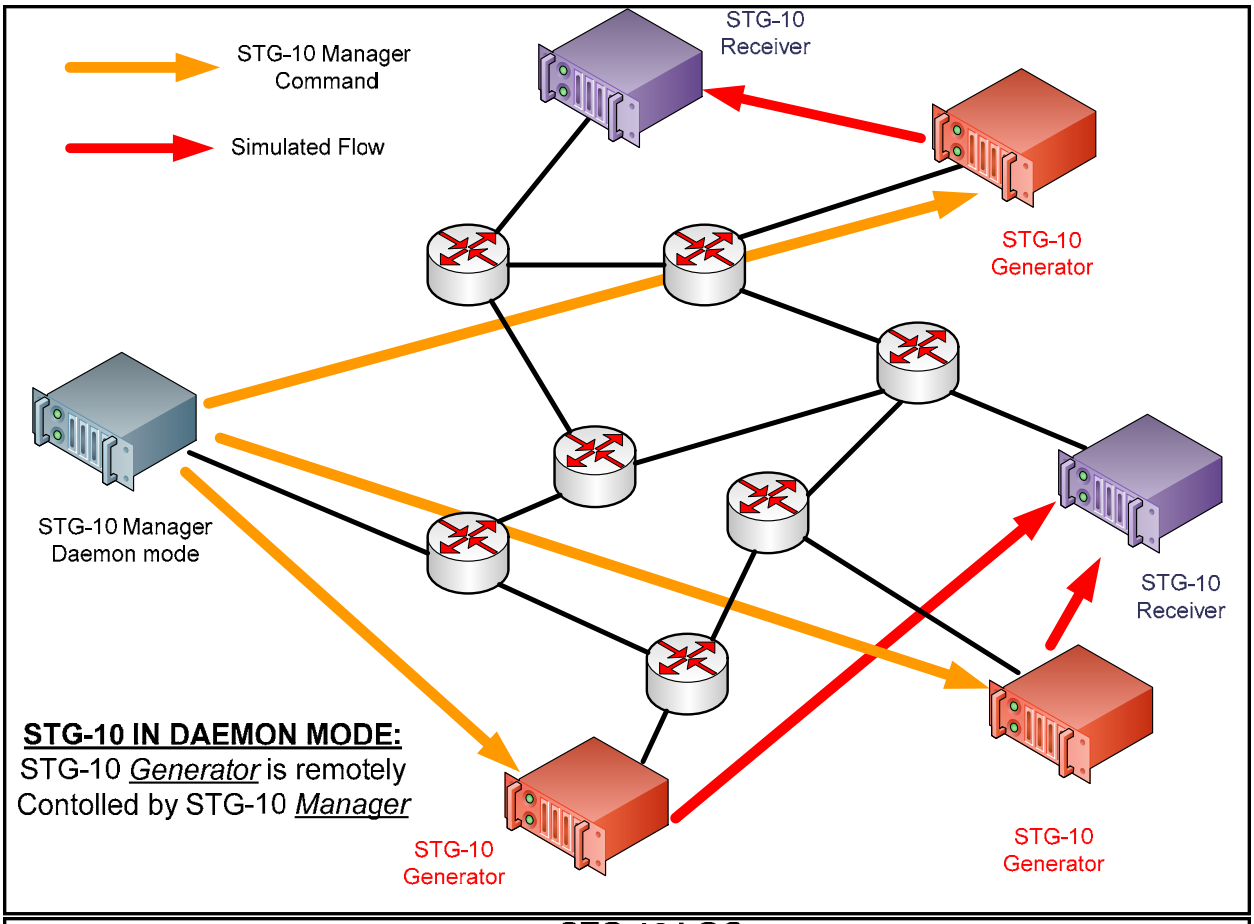
Supports UDP, TCP, ICMP, DCCP, SCTP and DNS, Telnet, VoIP (G.711.1, G.711.2, G.723.1, G.729.2, G.729.3)CSa, CSi and Quake3

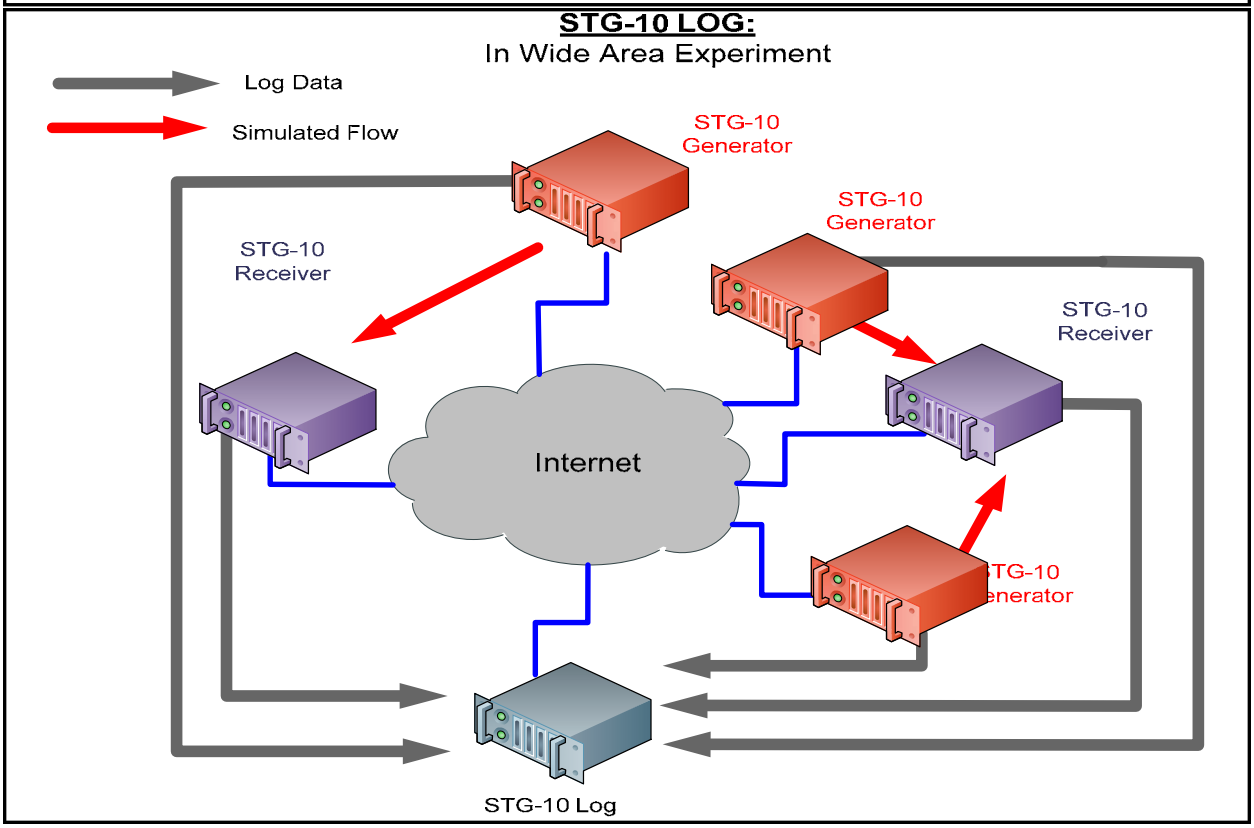
The unit can operate in three different modes:

- single flow mode: a single traffic flow is generated
- multi flow mode: multiple flows are generated, even towards different STG-10G instances;
- Packet Checker: a single traffic flow is generated & Received

ORDERING INFORMATION / TECHNICAL HOT LINK

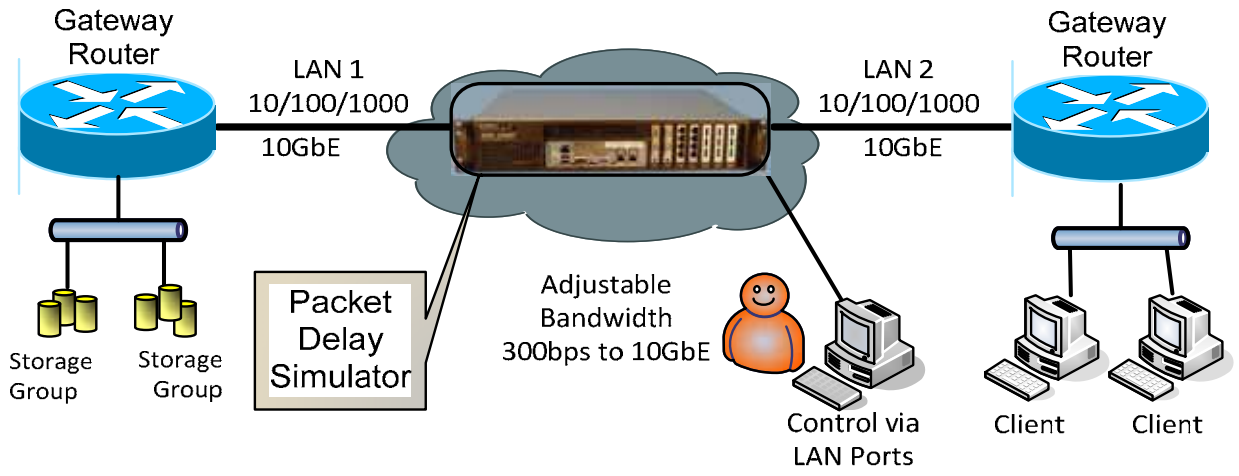
Part Number: 218000 **Model:** STG-10G, 4-Core, 8 Threads	PDF Product Presentation Location http://www.ecdata.com/PDFs/STG-10G.pdf


STG-10 Manager
Command
Simulated Flow
STG-10
Receiver
STG-10
Generator
STG-10 Manager
Daemon mode
STG-10
Receiver
STG-10
Generator
STG-10
Generator
STG-10 IN DAEMON MODE:
STG-10 Generator is remotely
Contolled by STG-10 Manager


STG-10 LOG:
In Wide Area Experiment
Log Data
Simulated Flow
STG-10
Generator
STG-10
Generator
STG-10
Receiver
STG-10
Receiver
Internet
STG-10
Generator
STG-10 Log

10/40GbE NETWORK DELAY SIMULATOR

NEW



EDS-10G supports rates up to 40GbE - MPLS Support

- **Interface: 10/100/1000, 10GbE and 40Gbe**
- **2-Ports or 4-Ports depending on the interface**
- **Copper or Fiber Interfaces**
- **Supports UDP, TCP, MPLS, VLAN, ESP, LPD, Encrypted Packets**
- **Precise Delay Emulation**
- **Supports Packet Filtering**
- **No Software to Load**
- **SCRIPT Support**
- **10/100/1000 MGMT Ports**
- **0 to 8 Seconds of Delay**

The EDS-10G is an Ethernet Delay Simulator allowing users to test/stage critical network equipment by altering bandwidth, latency, packet loss, congestion and other important link impairments over 10/100/1000, 10GbE and 40Gbe Ethernet.

The EDS-10G utilizes the latest hardware and software design allowing Line Rate Performance. The unit is a must have test tool for product development / demonstrations, network validation, VoIP benchmark testing, video / IPTV simulation and transaction performance. The hardware based architecture is coupled with custom software presenting an easy to use interface. The unit operates from a command line interface or web browser. The user has no cumbersome software or confusing licenses to deal with for secure operation.

The EDS-10G can act as a bridge or a router in the users network. The user configures the unit via a standard web browser. All commands and settings are displayed prominently. Simply set the band width, delay and any traffic congestion or loss if required. The unit also supports a filtering method of IP Packets and scripting support for automated testing. The user is presented with the results in real time and in a graph.

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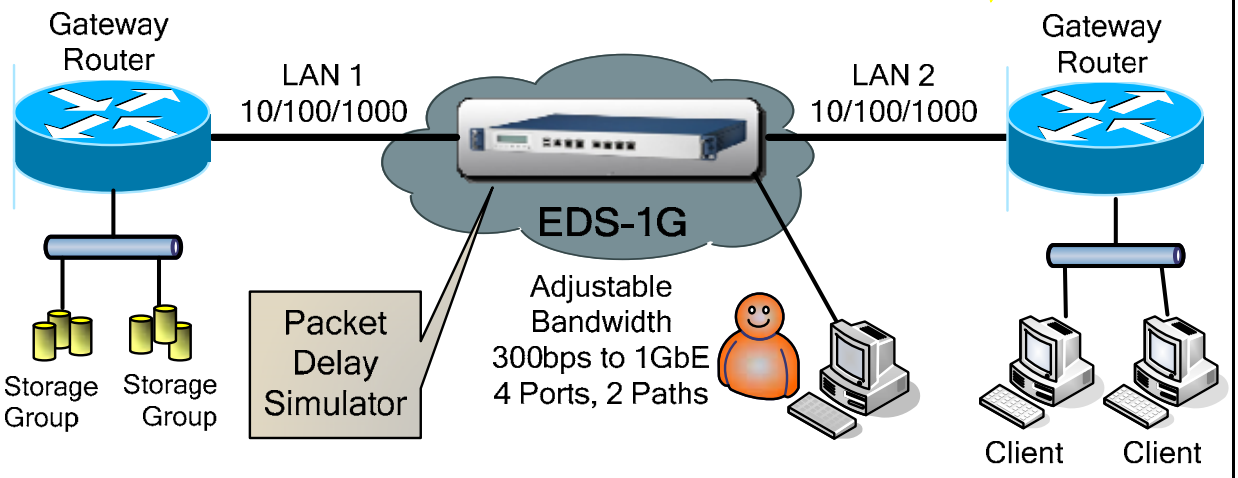
ORDERING INFORMATION / TECHNICAL HOT LINK

Part Number: 229000 **Model:** EDS-10G	PDF Data Sheet Location http://www.ecdata.com/10gbEemulator/10gbewansimulator.pdf

NETWORK DELAY SIMULATORS

MPLS / VLAN



EDS-1G supports 10/100/1000 - New MPLS Support

- **Interface: 10/100/1000**
- **4 Ports, 2 Separate Paths**
- **Supports UDP, TCP, MPLS, VLAN, ESP, LPD, Encrypted Packets**
- **Precise Delay Emulation**
- **Creates Log Files**
- **No Software to Load**
- **Easy to use GUI**
- **Two 10/100 MGMT Ports**
- **0 to 8 Seconds of Delay**
- **Constant, Uniform and Roaming Delay, Packet Loss, Re-Ordering**

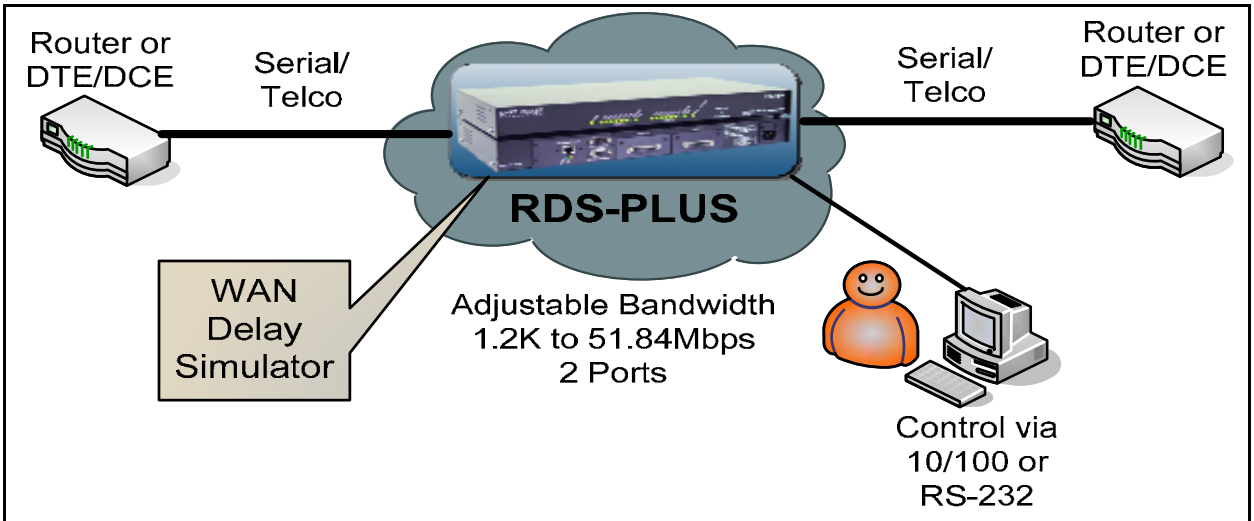
The EDS-1G is an Ethernet Delay Simulator allowing users to test/stage critical network equipment by altering bandwidth, latency, packet loss, congestion and other important link impairments over 10/100/1000 Ethernet. The EDS-1G can emulate two individual links simultaneously at rates up to 2 GbE, making it ideal for multiple test configurations. The EDS-1G is a must have test tool for product development / demonstrations, network validation, VoIP, benchmark testing, video / IPTV simulation and website performance.

The EDS-1G hardware based architecture is powerful and is coupled with custom software presenting an easy to use GUI interface. The EDS-1G operates from a web browser and the user has no cumbersome software or confusing licenses to deal with for secure operation.

The EDS-1G can act as a bridge or a router in the users network. The user configures the unit via the GUI interface using a standard web browser. The GUI is fast and simple to use. All commands and settings are displayed prominently. Simply set the band width, delay and any traffic congestion if required. The user is presented with the results in real time and in a graph.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Number: 207000 **Model:** EDS-1G	PDF Data Sheet Location http://www.ecdata.com/PDFs/lan-latency-emulator.pdf



RDS-PLUS supports Serial Data & Telco *NEW LVDS*

- **Serial & Telco Interfaces**
- **1.2k to 51.85Mbps Rates**
- **Precise Delay Emulation**
- **No Software to Load**
- **Easy to use GUI or Serial**
- **Bi-Directional Buffers**
- **0 to 4 Seconds of Delay**
- **Burst Error Insertion**
- **511 BERT Generator**
- **Status LED's Each Port**
- **3 Year Warranty & Support**
- **NEW EIA-644 LVDS cards**

The RDS-PLUS is the best Serial Data and TELCO delay simulator on the market with an exceptional price. It is a true industry work horse utilized by all government and contracting agencies.

The Router Delay Simulator Plus (RDS+) allows users to test and stage critical equipment for reliable network operation while simulating network delays. The RDS+ provides a realistic simulation of physical network behavior with respect to time delays and bit errors. It supports user rates of 1.2k up to 52Mbps while providing delays from zero to 8 round trip.

By using the RDS+ in place of or in series with a real link (WAN) a wide variety of error conditions can be introduced under controlled and testable conditions.

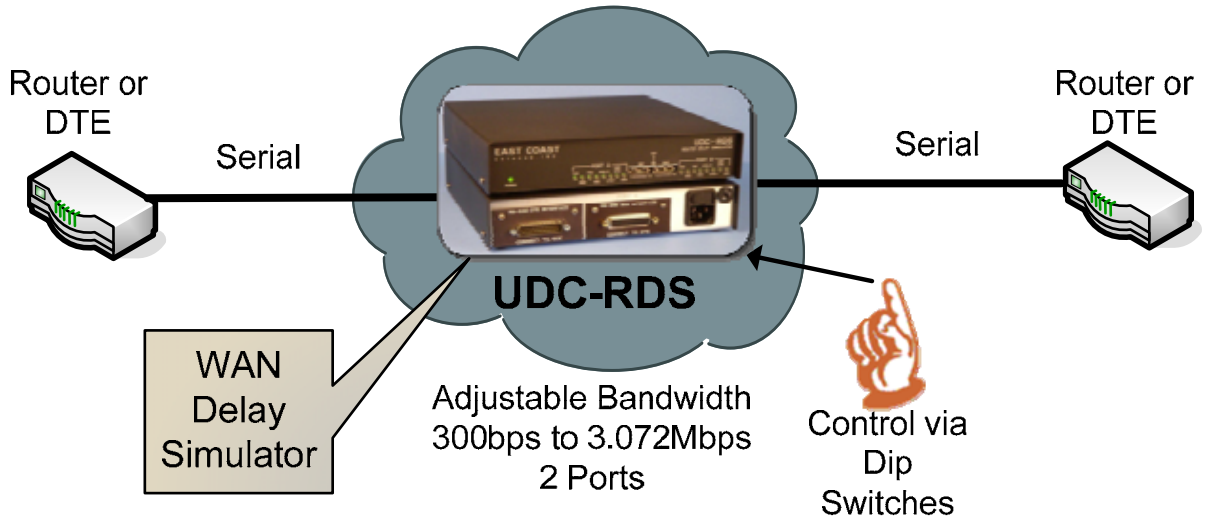
The RDS+ has two data port interfaces that support LVDS, RS-232, RS-422, RS-530, V.35, X.21, DS1/E1, TTL, HSSI, DS3, E3, or STS-1.

The RDS+ can introduce Random and/or Burst errors into the data stream. These two error types can be used independently or in a combined fashion.

The RDS+ is configured via a standard RS-232 serial port or an optional GUI 10/100 LAN module. The user has no software to load as all configuration data is within the RDS+.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Number: 175000 **Model:** RDS-PLUS	PDF Data Sheet Location http://www.ecdata.com/PDFs/rds+.pdf



UDC-RDS supports Low or High Speed Serial Data

- **Serial Interface Support**
- **300bps to 3.073Mbps Rates**
- **Precise Delay Emulation**
- **No Software to Load**
- **Easy to use Dip Switches**
- **Bi-Directional Buffers**
- **0 to 1 Second of Delay**
- **Standalone or Rackmount**
- **90-240VAC or DC Power**
- **Status LED's Each Port**
- **3 Year Warranty & Support**

The UDC-RDS allows users to test/stage critical low data rate testing of DCE or DTE equipment while simulating network delay times. The unit provides a realistic simulation of physical network behavior with respect to time delays and clock rates. The unit supports user data rates of 300bps up to 1.024Mbps while providing delays from zero to 1 second each path.
By using the UDC-RDS in place of or in series with a real data link (WAN) a wide variety of error conditions can be introduced under controlled and testable conditions.

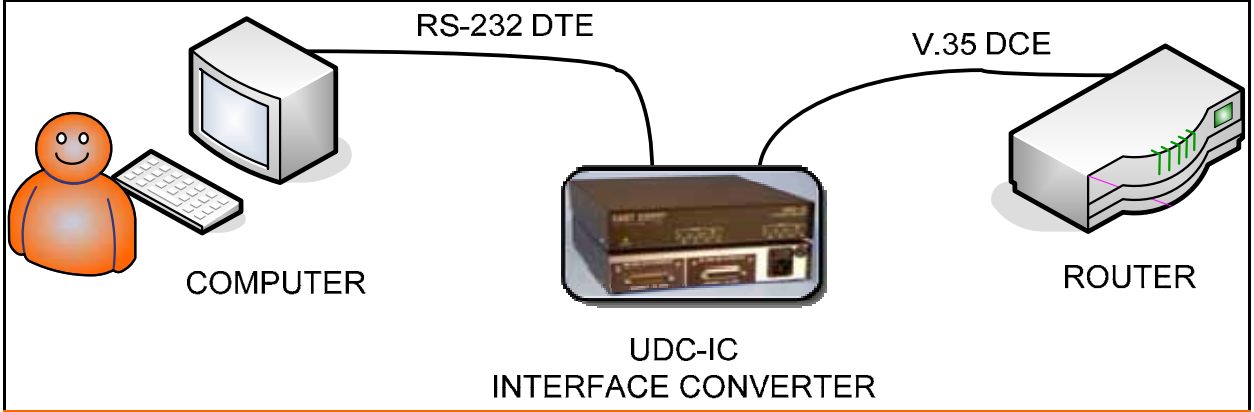
The unit has two data port interfaces that support RS-232, RS-422/449, RS-530, V.35, HSSI, LVDS and X.21. The data interfaces can be mix and matched where applicable, such as a V.35-to-RS-530 connection. The UDC-RDS also allows the user to pass or force control signals. The control signals are also delayed along with the user data.

The unit is configured via accessible front panel dip switches and is available in a stand-alone or rack mount chassis. The user has no software to load as all configuration is within the UDC-RDS. The model is available in two models for internal clocking or external clocking.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Number: Various **Model:** See web site	PDF Data Sheet Location http://www.ecdata.com/PDFs/UDC-RDS_low_speed.pdf http://www.ecdata.com/PDFs/UDC-RDS_low_speed.pdf

INTERFACE CONVERTERS



UDC-IC Converter & Other Interface Converters

- **Data Rates to 52Mbps**
- **Interchangeable Cards**
- **Fully EIA Compliant**
- **DCE or DTE Cards available**
- **Easy to use and configure**
- **8 LED's for each user port**
- **Control Signal Force/Pass**
- **Standalone or Rack Mount**
- **110/220VAC or DC Input**
- **UL, CSA, CE, FCC, RoHS**

We manufacture one of the largest lines of interface converters on the market covering low to high end interface powered to full compliance to interface standards voltage levels. The UDC-IC is our top selling, highest quality product capable of supporting any serial interface.

The UDC-IC allows the user to purchase a single product to convert interfaces between any combination of RS-232, RS-422/449, RS-530, V.35, X.21, HSSI, EIA-644 LVDS, RS-485, TTL and Current Loop. The unit supports data rates up to 10Mbps.

The UDC-IC has two TTL level interfaces for connecting each data interface. The unit is shipped with any two user specified data interfaces included in the price. Additional data interfaces are sold separately. The individual data interfaces are available in DCE or DTE formats and allows control signal manipulation.

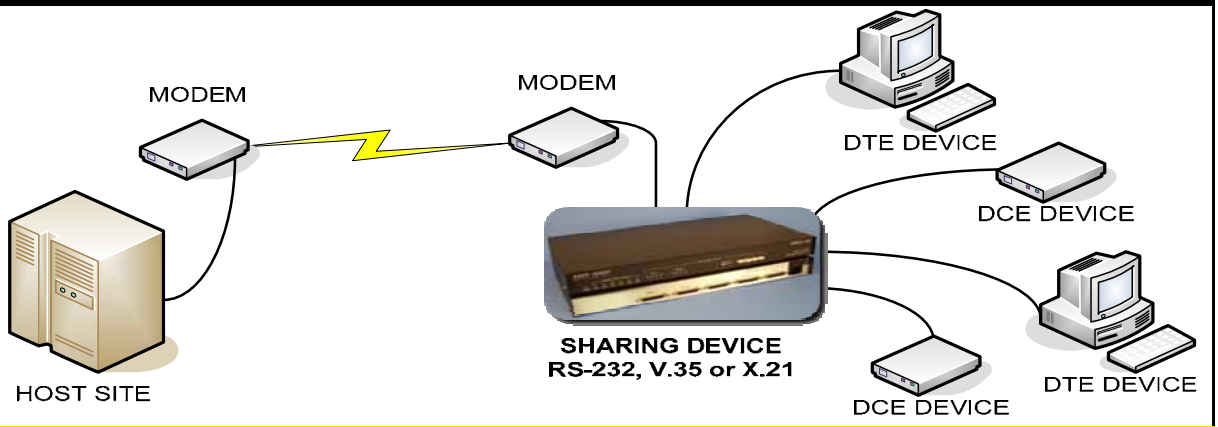
The UDC-IC has status LED's for each attached data interface which allows the user to visually confirm the presence of control signals. The power supply supports 110/220VAC or optional 36-72VDC input.

In addition to our standard Interface Converters we can design custom interface cards for the UDC-IC converter for your most demanding requirement or to fulfill an outdated piece of equipment.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Number: Various **Model:** See web site	PDF Data Sheet Location http://www.ecdata.com/interface_converter.html

DIGITAL SHARING DEVICES



MODEM AND PORT SHARING DEVICES

- **RS-232, V.35 and X.21**
- **DCE or DTE Support**
- **Sync or Async Support**
- **Internal / External Clocking**
- **Built in Tail Circuit Buffer**
- **Contention: RTS, DCD and Switch on Data**
- **Anti-Streaming Support**
- **Easy to use and configure**
- **Status LED's for Set-up**
- **Control Signal Force/Pass**
- **Standalone or Rack Mount**
- **110/220VAC or DC Input**
- **UL, CSA, CE, FCC, RoHS**

Our Digital Sharing Devices(DSD) have been in production since 1994 and while we have continued to improve on their functions, they are the work horse for many thousands of users. All of the products are to current international safety standards.

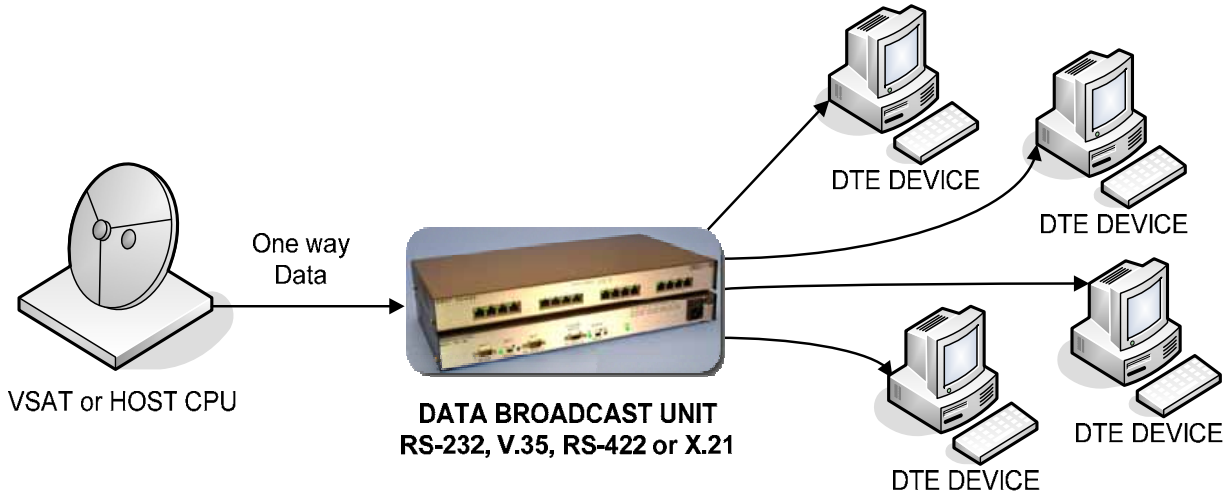
The DSD's provide the network manager with a cost effective means of expanding existing, leased line polled networks without adding computer ports or communications links. With the DSD's, up to eight terminals can share the same port and communications link using the contention and control protocols normally resident in the host hardware and software.

Ideal for either synchronous or asynchronous network environments, the DSD's are protocol transparent at data rates up to 128Kbps. Data arriving at the Master Port is continually broadcast to all Sub-channels. The attached DCE or DTE device that raises the control signal is automatically given control of the DSD until data transmission is complete. Clocking is internal or external and the DSD's support forced control signals when necessary.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Number: Various **Models:** See web site	PDF Data Sheet Location http://www.ecdata.com/digital_sharing_device.html

DATA BROADCAST UNITS



SIMPLEX DATA DISTRIBUTION, SERVER TIMING

- **RS-232, RS-422, RS-530, V.35, X.21 and HSSI**
- **Receive Data, Clock and Optional Control Signal Broadcast to all Sub-Channel**
- **Sync or Async Support**
- **Redundant Cascade Options**
- **Surge Suppression**
- **Status LED's for Set-up**
- **Ideal for VSAT/HOST CPU Data Broadcasting**
- **Standalone or Rack Mount**
- **110/220VAC Input**
- **UL, CSA, CE, FCC, RoHS**

The industry work horse for many years for simplex data distribution you can rest assured in East Coast Datacom's serial Data Broadcast Units (DBU) for reliability.

The DBU's are an excellent choice for simplex broadcasting of data, clock and control signals. We support RS-232, V.35, RS-422/449, X.21 and HSSI serial data interfaces.

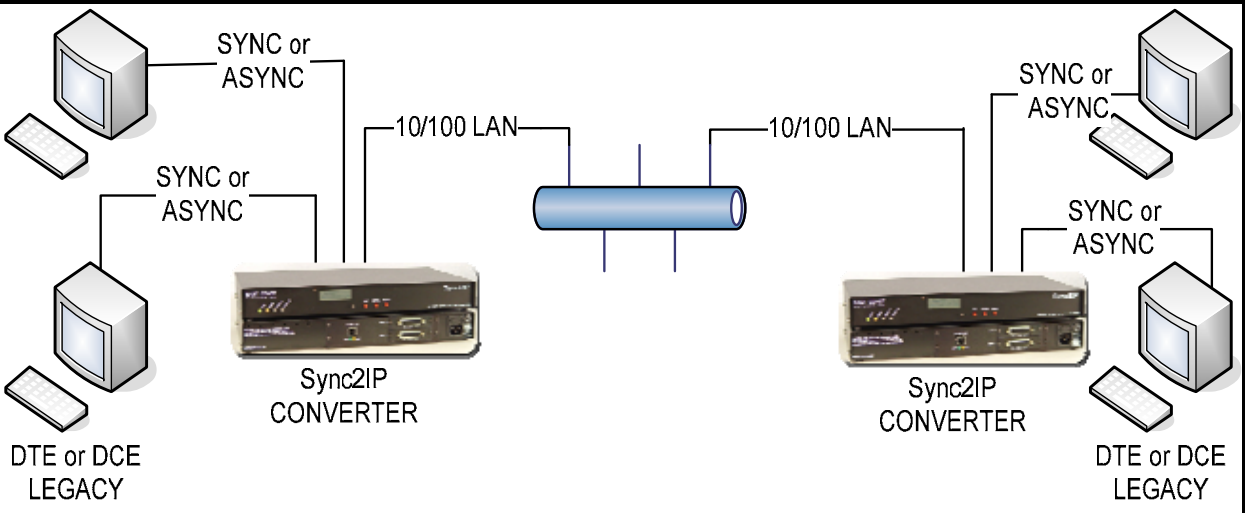
The Data Broadcast Units support synchronous or asynchronous data from rates as low as 50bps up to 20Mbps. The units are designed for a single or dual input data source and output data on 3 to as many as 16 sub channels for distribution. We also support cascading and redundant cascading depending on the model.

The DBU's are used by many leading Fortune 500 companies, the federal government and the FAA network. The units are also an excellent solution for distributing timing to multiple servers.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Number: Various **Models:** See web site	PDF Data Sheet Location http://www.ecdata.com/data_broadcast_unit.html

NETWORK ADAPTERS



SERIAL AND IP NETWORK ADAPTERS / CONVERTERS

- **RS-232, RS-422, RS-530, V.35, X.21 and Ethernet**
- **SYNC to IP Converter**
- **Async to Sync Converters**
- **64k Rate Adapters allow low speed Async to high speed sync data transfer**
- **Status LED's for Set-up**
- **Control Signal Force/Pass**
- **Standalone or Rack Mount**
- **110/220VAC or DC Input**
- **UL, CSA, CE, FCC, RoHS**

The Serial Network Adapter product line offers many different options for converting sync and Async data conversion. We support Sync to IP conversion via a proprietary tunneling method for adapting legacy equipment over private IP networks. The user may also work with us to provide a single ended Sync to IP conversion utilizing our packets.

Our other products include Async to sync converts, Async Rate Adapters and Simplex Sync Data Conversion. Our UDC-RA Rate Adapter has the largest selection of features and data interface options than any competing product on the market. All of the products have international safety approvals and are RoHS compliant.

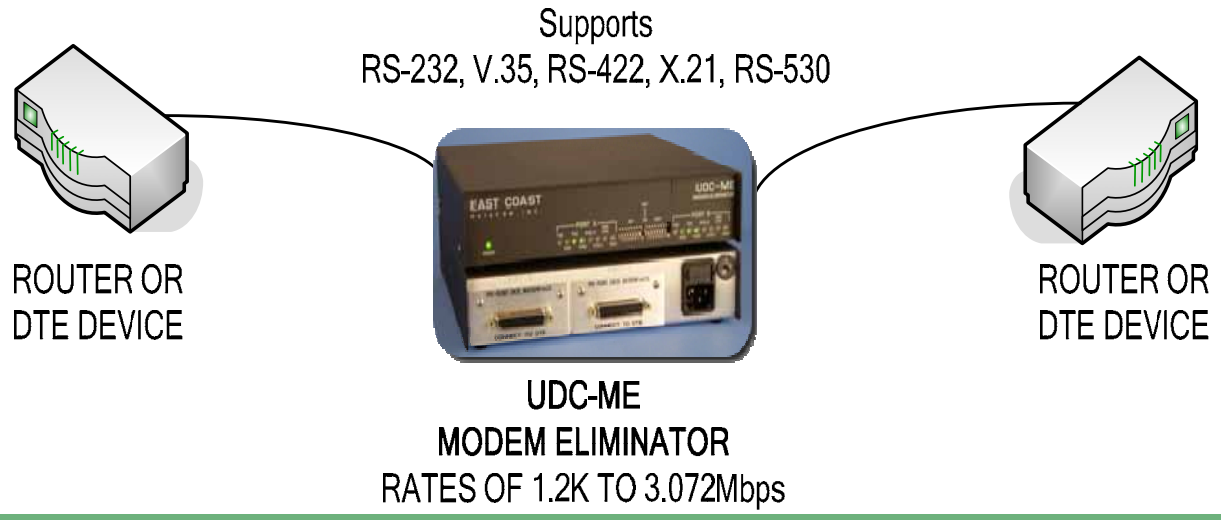
We have produced more than 4000 of these converters and continue to find new interesting problems to solve for our customers. Our flexible product design allows us to easily modify existing FPGA code for your network requirements.

COMING SOON
—-SUPPORT FOR HDLC—
NRZ/NRZI
T1 and E1 Data Rate Support

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Numbers: Various **Models:** See web site	PDF Data Sheet Location http://www.ecdata.com/serial_network_adapter.html

MODEM ELIMINATORS



SERIAL MODEM ELIMINATORS

- **RS-232, RS-422, V.35, X.21, RS-530 and HSSI**
- **Data Rates: 1.2k to 3.072Mbps, 32 selectable Rates**
- **Serial Interface Cards are Interchangeable**
- **Options for RTS/CTS delay, DSR/DTR per port**
- **Status LED's for Set-up**
- **Control Signal Force/Pass**
- **Standalone or Rack Mount**
- **110/220VAC or DC Input**
- **UL, CSA, CE, FCC, RoHS**

The UDC-ME allows two DTE devices (such as routers) to communicate within proximity of each other. The UDC-ME transmits data bi-directionally at clock rates of 1.2k up to 3.072Mbps between DTE devices. All clocking and signal crossover are provided within the UDC-ME. The unit is equipped with two interface slots that allow a host of serial interface cards to be utilized. The serial interface cards available are RS-232, RS-422/449, RS-530, X.21, V.35 and HSSI. The Serial Interface cards are interchangeable and may be mixed such as RS-232 to V.35 thus eliminating the need for an interface converter or changing expensive serial cards on a DTE device such as a router.

The UDC-ME is also an excellent choice for testing router-to-router connections via the serial ports. Installation is fast and simple by setting the dip switches for Clocking, Carrier Operation and RTS to CTS delay. The unit has status LED's for each attached DTE device which allows the user to visually confirm the presence of clock and control signals.

The UDC-ME is housed in a sturdy metal enclosure and operates on 110/220VAC or optional -48V DC power. Typical MTBF figures are in excess of 150,000 hours of operation.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Numbers: Various **Models:** See web site	PDF Data Sheet Location http://www.ecdata.com/modem_eliminator.html

TAIL CIRCUIT BUFFERS

Supports
RS-232, V.35, RS-422, X.21, RS-530

SERIAL FIFO & TAIL CIRCUIT BUFFERS

- **RS-232, RS-422, RS-530, V.35 and X.21 Interface Cards**
- **SYNC Rates to 2.048Mbps**
- **User selectable buffer sizes of 1024, 2048, 4096 and 8192 bits**
- **Timing: External via attached DCE devices**
- **Status LED's for Set-up**
- **Standalone or Rack Mount**
- **110/220VAC or DC Input**
- **UL, CSA, CE, FCC, RoHS**

We manufacture several different Tail Circuit Buffers and FIFO buffers depending on your application. Some of our buffers are small while others are large storage / Delay buffers.

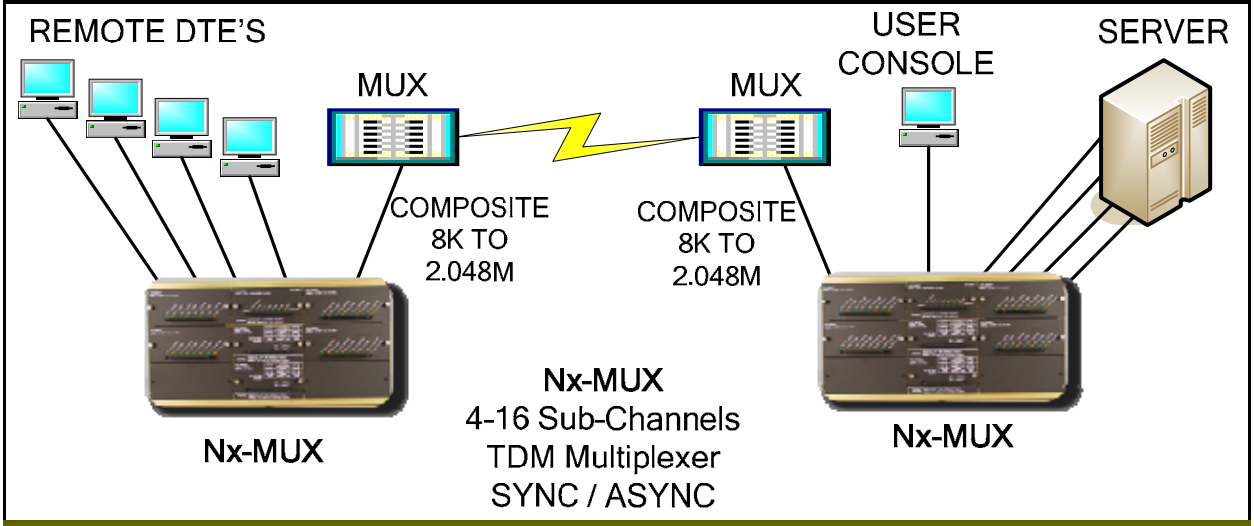
Our main Tail-Circuit Buffer is the UDC-FB and it is designed to provide selectable bi-directional buffering between two data circuits that are operating at nominally the same clock rate and are capable of providing clocking as a DCE. In such cases, the timing of the two circuits is not locked to the same timing source, or may be allowed to deviate from a common timing source for a length of time. The UDC-FB meets this need by providing selectable amounts of bi-directional memory from 1,024 bits up to 8,192 bits and supports synchronous clock rates up to 2.048 Mbps.

The data memory is based upon a self-centering FIFO buffer. Upon power-on, a reset, or a prior buffer under-run or overflow, the buffer will accept and hold all input data until the buffer is half full. At that point, the buffer will be released to output the first data received and will continue input and output through the FIFO at the rate determined by the input and output clocks. Differences in clocking rates on the two interfaces will result in the amount of data queued in the buffer changing over time.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Numbers: Various **Models:** See web site	PDF Data Sheet Location http://www.ecdata.com/tail_circuit_buffer.html

TDM MULTIPLEXERS



ASYNC or SYNC TDM MULTIPLEXERS

- **Single or Dual Composite Ports 8k to 2.048Mbps**
- **Sub-Channel Data Rates: 1.2k to 64k SYNC or ASYNC**
- **Modular Front Load 5U Rack**
- **In-Band Management Port**
- **Configured Local or Remote down line loading**
- **Single or Redundant Dual Power Supplies**
- **90-240VAC Power**
- **UL, CSA, CE, FCC, RoHS**

We offer 4 different versions of our popular TDM Multiplexers. With an installed base around the world with the largest financial service company in the world, the Nx-MUX is as reliable as the day is long.

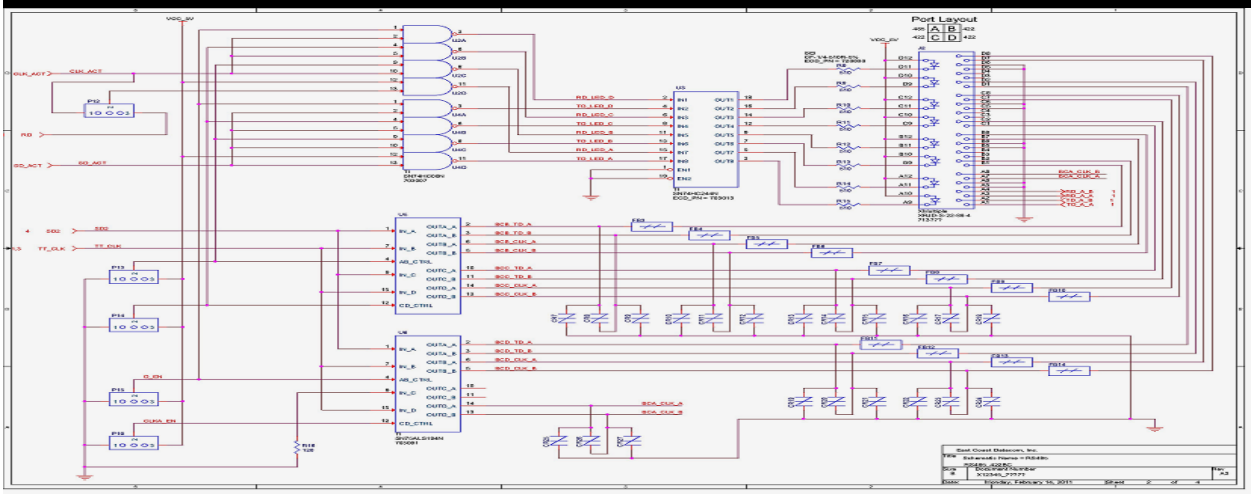
The 16-Port Nx-MUX is a modular TDM Multiplexer designed to support up to sixteen sub-channel ports from 1200bps to 38.4 Kbps in Async format and up to 64Kbps in Sync formats. The unit is designed with single or dual composite ports and variable port rates from 8Kbps to 2.048Mbps in 8k or 64k steps for maximum flexibility. The composite port data interface is software selectable to operate as RS-232, RS-530, V.35, RS-422/449 or X.21.

The sub-channel ports may be individually configured to support flow control of RTS to DCD on a port by port basis or no flow control. The ports also support individual RTS to CTS delays and external TXC timing for DCE to DCE crossover. The data interfaces are RS-232 on 16 ports. In addition, four of the user ports are software selectable to operate as RS-232, RS-530, V.35, RS-422/449 or X.21.

ORDERING INFORMATION / TECHNICAL HOT LINK

Part Numbers: Various **Models:** See web site	PDF Data Sheet Location http://www.ecdata.com/subrate_mux-TDM_multiplexer.html

CUSTOM DESIGN SOLUTIONS



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- **Changes to Existing Designs**
- **6-8 weeks for most designs**
- **Little to No R&D Costs Up-front with production QTY's**
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- **Cost Reduce an Existing Product**
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CONTACT INFORMATION / TECHNICAL HOT LINK

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SOFTWARE DESIGN SOLUTIONS

Software Systems services include

Boot code development

Development of Board Support Packages and Device Drivers for various reference designs Firmware

RTOS - VxWorks , pSOS, WinCE , Embedded Linux , QNX, Thread-X, Nucleus

Logical and physical drivers supporting various layers of protocol stacks for embedded applications

Feature enhancements for existing systems

Design and interoperability testing, test automation for existing platforms

Enhancement of BSP software for specific boards

Customized API development for specific customer needs

Development and Porting of Protocols stacks

Development of Wired and Wireless Stacks

Embedded Software Development

Porting Protocol Stacks

Windows (CE, 2K, NT) to Linux

Linux to Window (CE, 2K, NT)

Porting Codecs

C Code porting onto specific DSP

C Code porting onto specific DSP assembly code

Optimized (DSP) C code to DSP assembly code

Porting of Applications onto different operating systems

Technology Expertise

.Net platform

C,C++,C#

JAVA/J2EE

Windows CE

SQL and DataBase Management

Application Domain Expertise

Enterprise Software

Tool Development

Industrial Automation

Media and entertainment

Media Development(SDK)

Product Management Software

Front ends for Embedded platforms

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DATACOM, INC.

GSA Contract Holder
Contract GS-35F-0187X

DATA COMMUNICATION ACCESSORY EQUIPMENT AND NETWORK LATENCY SIMULATORS

SERIAL PINOUT CHART

Function	From	RS-232	V.35	X.21	RS-530	RS422-449
Chassis Gnd	--	1	A	1	1	1
DTE Return	--	--	--	--	--	37
DCE Return	--	--	--	--	--	20
TX Data (A,B)	DTE	2	P,S	2,9	2,14	4,22
RX Data (A,B)	DCE	3	R,T	4,11	3,16	6,24
RTS (A,B)	DTE	4	C		4,19	7,25
Control (A,B)	DTE	--	--	3,10	--	--
CTS (A,B)	DCE	5	D	--	5,13	9,27
DSR (A,B)	DCE	6	E	--	6,22	11,29
Signal Gnd	--	7	B	8	7	19
DCD (A,B)	DCE	8	F	--	8,10	13,31
Indicate (A,B)	DCE	--	--	5,12	--	--
Test	DCE	9	HH	--	--	--
Test	DCE	10	FF	--	--	--
TXC (A,B)	DCE	15	Y,AA	--	15,12	5,23
RXC (A,B)	DCE	17	V,X	--	17,9	8,26
Signal Timing (A,B)	DCE	--	--	6,13	--	--
LL	DTE	18	L	--	18	10
DTR (A,B)	DTE	20	H	--	20,23	12,30
RL	DTE	21	N	--	21	14
RI	DCE	22	J	--	--	15
Ext TXC (A,B)	DTE	24	U,W	--	24,11	17,35

All Balanced leads such as 24,11 are shown as "A" lead and "B" lead or +/-

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