

DAG 3.7T



The Endace DAG® 3.7T network monitoring interface card has been optimized for monitoring with precision timestamping capability on up to 16 T1/E1 network links.

Supported protocols include raw data (unmapped/unframed), HDLC and ATM over as many as 512 sub-channels, channels, and hyper-channels. The DAG 3.7T also supports Inverse Multiplex ATM (IMA) link aggregation, AAL2 and AAL5 segmentation and reassembly, and frame (HDLC), cell (ATM), and packet (AAL2/5) filtering based on user-defined filter rules. An onboard Intel® XScale™ processor provides the means to pre-process data prior to presentation to the monitoring software)

The DAG 3.7T enables network operators to develop solutions that inspect all traffic at the network edge for security threats, and precisely measure network performance and latency to improve end user's experiences.

On up to 16 T1/E1 network links the DAG 3.7T delivers the power to see all to your applications.

KEY FEATURES

- Sixteen channel network monitoring interface card for E1 and T1/J1 networks (receive and transmit)
- 100% packet capture into host memory at full line rate for all packets from 5 to 2040 bytes
- Software-selectable impedance control provides link termination or transparent-monitoring
- Supports ATM and HDLC networks, plus RAW capture/transmit
- Full packet, header only, or set length (truncated) packet capture
- Precise packet timestamping and clock synchronization by GPS for applications that require highly accurate measurements over long distances
- Support for industry standard PCAP capture format (libPCAP / WinPCAP)
- Designed to integrate easily into existing server hardware with 32-bit PCI bus technology

DAG 3.7T – Technical Specifications

Physical interface	E1 (2.048bps), T1/J1 (1.544Mbps), 16 full duplex ports, 'RJ45'/8P8C connectors in external pod
Electrical interface	Programmable line termination: High impedance/120/100/750ohm, Built-in lightning strike, ESD and AC-fault protection.
Supported encapsulations	Up to 512 channel configurations distributed over grouped/individual fractional/full links RAW E1/T1/J1 – 24, 31 and 32 timeslot frames HDLC – Supported channel sizes (Kbps): 8, 16, 32, 56, 64, 128, 192, 256... 2048 ATM - Supported channel sizes (Kbps): 64, 128, 192, 256...2048 IMA – 1 to 8 IMA links AAL2 and AAL5 – Segmentation and Reassembly
Time synchronization	External: 'RJ45' connector for RS-422 PPS Signal from GPS or CDMA receiver. Internal: Host PC clock. Also able to synchronize with other DAG cards.
Packet timestamping	60ns clock resolution
PCI interface	PCI 32-bit 33MHz 3V and 5V signaling
Operating systems requirements	Endace software is supported on the following operating systems: LINUX, FreeBSD, Windows Server 2003 and 2008
Power requirements	Less than 10W
Operating temperature	32 to 131°F (0 to 55°C)
Airflow requirements	200 LFM (@ 122°F/50°C ambient)
Operating humidity	5 to 95% non condensing
Physical dimensions	Full height, half length PCI2.2 Height 4.2" (106.7mm) Length 6.88" (175mm)

Physical Assembly Options

The 16 'RJ45' sockets (one for each E1/T1/J1 link) are housed in an attached pod. The pod is connected to the DAG 3.7T via a cable terminated at each end with a high-density 68-pin VHDCI connector.

The pod may be externally rack-mounted and attached to the PCI back-plate on the DAG 3.7T using an external cable. Alternatively, the pod may be mounted in a 5¼" drive bay inside the system chassis and attached to an internal VHDCI connector on the DAG 3.7T. An unshielded ribbon cable for internal mounting is included as standard. An external shielded cable is available for purchase separately.



Companion Products

The following products are compatible with the DAG 3.7T:

Cables

Shielded cable for DAG 3.7T external connection to interface Pod	CBL-EXTPOD
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Time Measurement Devices

Trimble Acutime™ Gold GPS receiver	GPS-2
EndRun Technologies Præcis Ct™ CDMA receiver	CDMA-1
Endace 2-port Time Distribution Server, accepts serial input from GPS/CDMA sources	TDS-2
Endace 6-port expansion module for TDS-2, shares common reference time source	TDS-6
Endace 24-port Time Distribution Server, accepts serial input from GPS/CDMA sources	TDS-24

For information about Taps, Switches, and Cables visit endace.com/accessories

For more information on Endace products visit: endace.com
For enquiries email: enquiries@endace.com