

eLink-300 IAD

Integrated Access Device

HIGHLIGHTS

- **Lowers capital and operational expenses** by combining multiple devices and services into a single compact unit and single WAN connection
- **Delivers full line-rate** performance with up to 2 x T1 capacity
- **Advanced fail-safe, self-test capabilities** to provide intelligent power surge detection and suppression on FXS ports
- **Eliminates the need** for multiple access devices
- **Meets current and future voice needs** with advanced features including local station-to-station, caller ID pass-through, distinctive ringing, and multi-line phones
- **Protects capital investment** with the ability to upgrade service type (voice-only data-only, or integrated voice & data), as well as scalable voice capacity with ePorts
- **Simplifies management** of network devices

APPLICATIONS

- **Integrate voice, data, and Internet access** in a single, compact system
- **Deploy as a voice-only solution:** integrate voice connections over a single T1 and take advantage of call-handling capabilities
- **Use as a data router & firewall,** and later upgrade to a full IAD



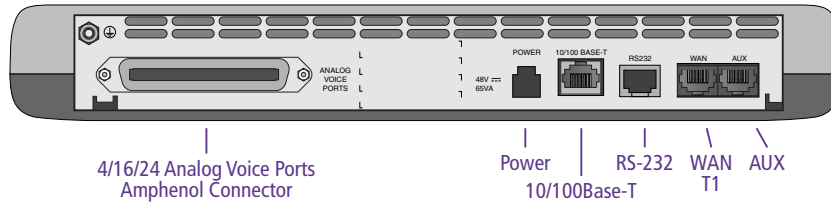
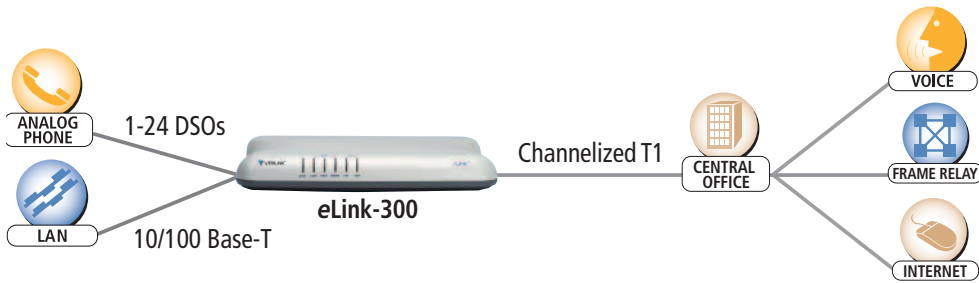
The Verilink eLink™-300 family of IADs is an ideal solution for small, and medium businesses looking to integrate voice, data, and Internet access over a single network interface. These all-in-one solutions simplify networks and lower operating costs by combining a channel bank and advanced call handling for voice connections, an IP router for data transport, a CSU/DSU for line termination, a DHCP server for address management, and a firewall for LAN security in a single compact unit.

The eLink-308 provides 8 analog voice interfaces, the eLink-316 up to 16 and the eLink-324 provides a full 24. They also include a 10/100 Base-T LAN port. The eLink-308 provides a low cost 8 port fixed configuration, while the eLink-316 and eLink-324 units provide support for ePorts™ which allows a business to purchase just the capacity it currently needs, and expand that capacity at any time by activating additional ports.

Advanced configuration and provisioning support through Verilink's unique AutoCAP™ functionality makes the eLink-300 a plug-and-play solution that allows service providers to automatically install, configure, and provision the system. By automatically detecting and setting all system parameters, AutoCAP significantly cuts typical set-up and installation time.

Multiple options, including SNMP, menu-based interface, Telnet, web interface, and a console port simplify network management.

The eLink-300 family provides a complete, scalable solution for voice and data integration at a very economical price point for small and medium businesses.



The Verilink eLink-300™ family of IADs provides an easy-to-use, all-in-one network solution for integrated voice, data, and Internet access. These cost-effective solutions eliminate the need for multiple access devices, simplify network management, and provide for scalability of services and port capacity as business needs change.

USER INTERFACES

Analog Support Capacity	eLink 308 - FXS: 8 ports eLink 316 - FXS: 4 - 16 ports; FXO: 8 ports eLink 324 - FXS: 4 - 24 ports
Supported Features	FXS: Loop start/ground start; modem support, caller ID pass-through for loop start/ground start, message waiting notification; FXO: Loop start/ground start DID
Ringing	FXS: Balanced 15 REN, 87 Vrms, Unbalanced 25 REN, 82 Vrms; FXO: 1.5 REN per port, 20 Hz balanced ringing
Tx/Rx Gain Adjust Impedance	Tx: 0dB, -3dB or -6dB; Rx: 0dB, -3dB, -6dB, or -12dB
Loop Length Limit	6,300 ft. (24 AWG), 3,900 ft. (26 AWG)
Line Connector	RJ21
FT1/2nd WAN T1	
Features	Loop start/ground start/E&M, PRI pass-through
Line Connector	RJ48C
10/100 Ethernet	
Standards	IEEE 802.3, autosensing
Transmission Mode	Full or half duplex
Line Connector	RJ45
Console Port	
Interface	RS-232
Parity	No parity, 8 bits, 1 start, 1 stop
Modes	Ready to connect to terminal, Dial modem
Baud Rates	9,600, 19,200, 38,400
Line Connector	RJ45

NETWORK INTERFACE

T1	
Lines	1 or 2 T1s
Line Rate	1.544 Mbps per T1
Data Rate	N x 64 Kbps (N = 1-24)
Framing	SF (04), ESF, TR-08, (SLC96)
Line Coding	B8ZS, AMI
Line Connector	RJ48C

NETWORK SERVICES

Frame Relay	
LMI	LMI T1.617 annex D, LMI Q.933 annex A
PVCs	Max. 30 PVCs
IP NETWORKING	
Packet Throughput	Line rate
Routing	RIP I/II, Static, Backup default routing
Features	IP over (Frame-relay (RFC 1490), PPP, HDLC, FDL) PAT/NAT (5000 sessions), Configurable NAT sessions timers, IP/QoS (Fair queuing), DiffServ, DHCP server, DNS proxy, Telnet, FTP, NTP, Trace route, Ping, SYSLOG
Firewall Support	
Filtering	Enhanced IP filtering
MANAGEMENT	
SNMP	MIBs per RFC1213, RFC1315, RFC1406
Support Tools	Status and statistics on all interfaces; integrated voice diagnostics
Management Access	Console/Telnet, menu-driven commands/script interface, web access

POWER

AC	100-130 V AC, 60HZ, 60VA (with supplied transformer)
DC	36-56.5V DC, 60VA
BTUs	316: 102.39 BTUs/hr; 324: 146.51 BTUs/hr

PHYSICAL CHARACTERISTICS

Usage	Wall mount, desktop usage
Size	1.75" H x 12.5" W x 10" D (4.5 x 31.75 x 25.4 cm)
Shipping Weight	6-8 lb (2.72 - 3.62 kg)

ENVIRONMENT

Operating	0 to 45 °C (32 to 113 °F); up to 95% relative humidity, non-condensing
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REGULATORY COMPLIANCE

Safety Emissions	UL1950, CSA 950 - Listed I.T.E. FCC Part 15, Class A, Canada C108.8-M1983
Network Compliance	FCC Part 68, Industry Canada CS-03, EIA/TIA-464-B, AT&T TR-62411, AT&T TR-54016, ANSI T1.403

