



ELECTRONIA



## VDC -1E Voice Data Concentrator

The Electronic VDC-1 E is a modular Network Gateway multiplexer and router designed to provide companies with all the benefits of Internet security and convergence. It is a voice gateway and data router combined to work over WAN and LAN connections. With the VDC-1 E, data and voice transmission are completely secure using industry standard firewalls, encryption, and authentication protocols. Companies can combine their voice and data networks within a VPN and realize the benefits of features previously available only to a small number of companies.

The VDC-1E has a superior interoperability with a range of industry standards including IPSEC and UDP, frame relay, and proprietary encapsulation algorithms. The VDC-1 E provides prioritization of voice over data and dynamic bandwidth allocation to assure the most efficient use and availability of shared bandwidth in satellite network applications.

### Benefits:

- Secure voice and data with firewall, encryption, and authentication.
- Voice traffic is prioritized over data traffic reconfigured any analog port to FXS or E&M
- High-quality voice with exceptional bandwidth efficiency

### Features:

- Data/voice technology in one unit
- Quality of service
- Software configuration ports
- Voice compression using G.711, G.729a, TDHS, CELP, and ACELP
- Scalable and flexible
- Any port to any port over any protocol

## General:

The VDC-1E is a Voice, data, and VPN technology in one unit. The unit functions as a flexible voice exchange providing fatal dialing flexibility between any two ports in the network, even within the same VDC-1E. It supports ANI and will support calls between two-wire telephone ports on one unit and an EI trunk on a distant unit in the network. Powerful and flexible numbering plan translation tools are another major feature of the VDC- 1E. The Quality of Service (QoS) mechanisms ensure superior and consistent voice/fax/data performance and data integrity. The QoS capabilities including traffic and queue management. prioritization, forward error correction, (MGM buffet management. segmentation. and re-assembly.

The VDC-1E delivers high quality, low bandwidth compressed voice using G.711, G.729a, TDHS, CELP, or ACELP voice call algorithms. The toll quality voice with software configurable interface supports FX0. FXS, and E&M. Calls can be switched from any port to any port across a public, or private network within and between any VDC-1E and VDC-2E in the same network.

## TECHNICAL SPECIFICATION

Voice compression algorithms	G.71 1. G.7290, TDHS. Celp, or ACELP
Automatic call type detection	voice/Fax
Software configurable port	FXS. EXC. E&M
Fax support	Group II.1 at 2.4, 4.8, 9.6
Silence suppression and comfort noise generation	
Dialing	DTMF tone and pulse
Echo cancellation, Jitter buffer setting	
SNMP NMS support	

## GENERAL SPECIFICATION

Unit weight	9.5 lbs
Dimension	17.5" x 10.25" x 1.75"
Operating/storage temperature	Operating 0° to 50°C (32° to 122° F) Storage -5° to 70°C (23° to 158° F)
Operating/storage humidity (non-condensing)	Operating 10 to 90% Storage 5 to 95%
Input frequency	115 VAC at 64 Hz 2 30 VAC at 50 Hz
Voice module	1 to 4 ports. Supports FXO (Foreign exchange office) FXS(Foreign exchange service), or E&M (Ear and Mouth)
Fix module	10 baseT Ethernet - for LAN D89-console, to connect to a PC for configuring and monitoring
Optional module	10 baseT Ethernet - for LAN/WAN

