

The AEP Series V VadEDGE range of devices that enable effective communication at the edge of the enterprise network. With the AEP Series V, mobile, regional and remotely located teams are able to access the same voice and data communication channels that their colleagues benefit from at the organisation's headquarters.



## Delivering specialist communication solutions

The AEP Series V platform supports a wide range of protocols, WAN and user interfaces. This enables customers to aggregate and effectively deliver multiple service streams over almost any bearer communications medium including 3G/Edge, GSM, PSTN, ISDN, Leased Line, Satellite (VSAT) and IP/Internet. Combining voice (analogue and/or digital) with packet data services such as IP, POS, ATM, the Series V efficiently and cost effectively manages bandwidth through dynamic packet fragmentation and compresses voice to the minimum, whilst ensuring Quality of Service.

As a consequence, regardless of whether they're located at a regional office, remote branch or even deployed to a location miles from civilisation, workers are able to communicate swiftly, clearly and securely with central control teams and send/receive data that enables them to fulfil their role.



AEP Series V

### BENEFITS

- Operational cost reduction
- Service enablement
- Lower TCO
- Revenue enhancement
- Proven reliability
- Management flexibility
- Future roadmap
- Bandwidth savings
- Toll quality voice over limited band-width
- Central Support
- Minimal User Training

### FEATURES

- Software selectable WAN interfaces
- 2-port 10/100 Ethernet Switch ports
- Fibre Module using standard SFP Module for greater flexibility.
- ISDN PRI supporting upto 30 ISDN channels or fractional E1/T1
- BRI in TE Mode
- Up to 10 Digital Voice or 8 Analogue voice ports
- Multi-service support
- Reduced form factor
- High MTBF
- Feature-rich Management platform
- Support for GSM/CDMA to 3.5G WCDMA

## The VadOS operating system

The need to integrate multiple data sources does not have to require a complex and proliferated network infrastructure that is unwieldy and difficult to support. AEP Networks provides a single platform solution that provides all the benefits of reduced capital expenditure, simplified training, engineering resource efficiency and Central Support.

The core component throughout the entire AEP Networks product range is the VadOS operating system. VadOS recognises the importance of each data stream as dictated by business need and assigns a level of service integrity and quality of service while dynamically managing bandwidth for optimal use. This approach to aggregating and delivering voice and other mission critical application data streams over the most efficient transport mechanism enables our customers to intelligently handle multiple protocol communication requirements with ease and without user intervention and automatically.

## vadOS | Functional Specifications

### SERIAL LINK SUPPORT

- Standard:
  - Vados V-TEs (VSAT Throughput Enhancement Solution)
  - Frame Relay
    - NNI/UNI, LMI (ANSI & ITU)
    - Switched & PVC
  - TCP/IP PPP
  - TPAD
  - PPP/PAP/CHAP/MLP
  - X.25 (1980 & 1984), X.32
  - OSI Transport (Class 0, 2, 3)
  - V.25bis
  - Async port up to 115.2Kbaud (X.3, X.28)
  - HDLC
  - Bandwidth management
- Optional:
  - IBM SDLC / QLLC
  - APACs 30+40
  - ALC/IPARS
  - SMDS
  - Data compression/encryption

### ISDN SUPPORT

- Standard:
  - Q931, X.31
  - Basic Rate
    - 2B+D (Euro ISDN)
  - Primary Rate
    - 30B+D
    - CRC4, Double Frame/
    - Multi Frame
    - SS7 Spoofing
    - Unstructured

### VOICE SUPPORT

- Standard:
  - User selectable compression algorithms:
    - VoIP SIP, VoIP VTES
    - G.711 PCM @ 64Kbps (uLaw or ALaw)
    - G.727 E-ADPCM @ 16, 24, 32 or 40Kbps
    - G.726 ADPCM @ 16, 24, 32 or 40Kbps
    - G.723.1 MP-MLQ @ 5.3 or 6.3Kbps
    - G.729 CS-ACELP @ 8Kbps
    - NETCODER™ @ 6.4, 7.2, 8, 8.8 or 9.6Kbps
  - G.165 Echo cancellation up to 16ms
  - Silence compression or suppression with comfort noise generation
  - User configurable voice and tone volume
  - User configurable tones for different countries
  - DTMF detection and generation
  - Tone pair generation
  - Bad frame interpolation
  - Automatic voice/fax switching
  - Fax and Modem Support
  - Non-dial connect (PVC)
  - Dial connect (Switched Frame Relay / ISDN)
  - Time Break Recall (TBR) support
  - TOS/DiffServe
  - Analog and Digital
  - Voice-frame multiplexing
  - 'GSM A' Interface Support

### ETHERNET SUPPORT

- Standard:
  - MAC bridging, IP routing
  - RIP, RIP2, Static
  - NAT/PAT
  - OSI TP4/OSLAN
  - GOSIP CLNS/CONS
  - DHCD - Client/Server
  - IP header compression
  - IP/UDP encapsulation
- Optional - Protocol Tunnels
  - OSI ES-IS
  - DLC local termination
  - Metro Ethernet
- Terminal Emulation
  - Standard:
    - TCP Telnet (Client & Server)
    - Transparent Telnet (RFC 1006)
  - Optional:
    - ICL 7561
    - IBM 3270 (inc.Kanji)
    - IBM PU2.0 concentration
    - Viewdata and Prestel

### IBM NETWORKING

- Optional:
  - SDLC / QLLC / DLC

### Fibre Module

- Optional:
  - 2/20/30/60/80 km fibre modules

### MANAGEMENT SUPPORT

- Standard:
  - Local async console (RS232)
- Virtual port for remote access
  - SNMP (MIBs: MIB2 & Enterprise)
  - megaWATCH (SNMP Management)
  - Billing and Accounting
  - Local/Remote configuration, upload, download, TFTP
  - Remote software download, TFTP
  - RADIUS
  - Env monitoring
  - Internal protocol scope
  - Auto Configuration Management (ACM) - Zero Touch Configuration
- Auto link back-up, speed-detect & measure

### ACCESS

- Menu and Presentation Service Security (Password, address validation)

### Application Acceleration

- TCP Acceleration

### Future

- BRI (U)
- Web Management

### Security

- Optional:
  - Hardware based DES or Triple DES Encryption (subject to UK export approval).

Optional modules are only included by special order; additional charges may be applicable.

## Hardware Specifications

Model	Data Only Units					Data and Voice Units				
	4100	4150*	4160	4202	4206	4102	4158*	4204a	4208a	4210d
<b>PORTS</b>										
Ethernet 10/100 (fixed)	1	-	1	4	4	1	-	4	4	4
WAN (fixed)	2	-	-	2	6	2	-	2	2	2
Serial (fixed)	1	-	-	-	-	1	-	-	-	-
Ethernet 10/100	-	4(max)	-	-	-	-	4(max)	-	-	-
SFP Fibre Eth 100MB	-	2 <sup>6</sup> (max)	-	2 <sup>6</sup> (max)	2 <sup>6</sup> (max)	-	-	2 <sup>6</sup> (max)	2 <sup>6</sup> (max)	2 <sup>6</sup> (max)
WAN	-	4(max)	-	4 <sup>1</sup>	-	-	4(max)	-	4 <sup>1</sup>	-
G703 unstructured	-	-	-	-	-	-	-	-	-	-
G703 structured	-	-	-	1 <sup>4</sup>	-	-	-	-	1 <sup>4</sup>	-
ISDN PRI <sup>3</sup>	-	-	-	1	-	-	-	-	1	1
ISDN BRI <sup>3</sup>	-	1	-	1	-	-	1	-	1	-
USB	-	-	4	-	-	-	-	-	-	-
3G	-	-	1 <sup>7</sup>	-	-	-	-	-	-	-
GPRS	-	4(max)	-	-	-	-	4(max)	-	-	-
Analog Modem	-	1	-	-	-	-	1 <sup>5</sup>	-	-	-
Compression/Encryption	N	Y	N	Y	Y	N	Y	Y	Y	Y
<b>VOICE</b>										
Digital Voice	-	-	-	-	-	-	-	-	-	10
FXS	-	-	-	-	-	2	8 <sup>2</sup>	4	8 <sup>2</sup>	-
FXO	-	-	-	-	-	-	8 <sup>2</sup>	-	8 <sup>2</sup>	-
E&M	-	-	-	-	-	-	8 <sup>2</sup>	-	8 <sup>2</sup>	-
<b>CONFIGURATION</b>										
Desktop	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Rackmounted	N	Y	N	Y	Y	N	N	Y	Y	Y
<b>DIMENSIONS</b>										
Width (mm)	275	150	435	275	280	280	435	430	430	430
Height (mm)	45	42	45	45	65	45	45	45	45	45
Depth (mm)	140	110	270	140	245	245	270	270	270	270
<b>Power</b>										
100-240v AC external	Y(ext)	Y(ext)	Y(ext)	Y(int)	Y(int)	Y(ext)	Y(ext)	Y(int)	Y(int)	Y(int)
20-72v DC dual feed (opt)	N	N	N	Y	Y	N	N	Y	Y	Y

**Notes:**

1. Max 4 WAN or G703 ports
2. Max 8 ports
3. Either PRI or BRI may be fitted
4. Uses PRI expander – only 1 may be fitted
5. Fixed use analogue modem, only available when slot 4 not in use.
6. Different fibre range options available – please state on order range required
7. 3G capable with external USB 3G module

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