

vadEDGE™ 4150 | Product Information

The vadEDGE range of Multi-Service Communications Processors enables effective communication at the edge of the enterprise network. With the vadEDGE, mobile, regional and remotely located teams are able to access the same voice and data communication services that their colleagues benefit from at the organisation's headquarters.

The 4150 provides the same high performance as its larger counterpart, the vadEDGE 4200 series, but now with increased functionality and reduced form factor.

Delivering specialist communication solutions

The new vadEDGE 4150 platform supports a wide range of protocols and network interfaces, such as WAN and Ethernet, enabling customers to aggregate and effectively deliver multiple services over almost any bearer communications medium including GPRS, PSTN, Basic Rate ISDN, Leased Line and Satellite (VSAT).

The 4150 efficiently and cost effectively manages bandwidth through dynamic packet fragmentation, effectively reducing protocol overheads, 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, users are able to communicate swiftly, clearly and securely with central control teams and send/receive data that enables them to fulfil their role.



Benefits

- Operational cost reduction
- Service enablement
- Lower TCO
- Revenue enhancement
- Proven reliability
- Management flexibility
- Future roadmap
- Bandwidth savings
- No Software Licences
- Feature rich management platform

Features

- Four slots supporting the following optional modules:
 - GPRS
 - 2 Port Ethernet
 - ISDN (BRI)
 - High Speed WAN
- 1 x Fixed PSTN Modem Port
- Hardware based Compression
- Hardware based Encryption (subject to UK Export Approval)
- Remote web management
- Available with Auto Sky Roaming (ASR)™

vadEDGE 4150 (Data)

Product Information

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. Vados Systems provides a single platform solution that provides all the benefits of reduced capital expenditure, simplified training and engineering resource efficiency.

The core component throughout the entire Vados Systems 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.

vadOS | Functional Specifications

<p>Serial Link Support</p> <ul style="list-style-type: none"> Standard: <ul style="list-style-type: none"> Vados V-TEs architecture Frame Relay NNI/UNI, LMI (ANSI & ITU) Switched & PVC TCP/IP PPP (RFC 1331), SLIP TPAD 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, X.29) HDLc transparent pass-through Bandwidth management Auto link back-up Link and Channel bonding Optional: <ul style="list-style-type: none"> IBM SDLC / QLLC APACs 30+40 X.42 SMDS <p>Terminal Emulation</p> <ul style="list-style-type: none"> Standard: <ul style="list-style-type: none"> TCP Telnet (Client & Server) Transparent Telnet (RFC 1006) Optional: <ul style="list-style-type: none"> ICL 7561 Hitachi T560 IBM 3270 (inc.Kanji) Telnet (RFC 1646) 	<p>IBM Networking</p> <ul style="list-style-type: none"> Standard: <ul style="list-style-type: none"> SDLC QLLC Ethernet DLC <p>Security</p> <ul style="list-style-type: none"> Optional: <ul style="list-style-type: none"> Hardware based DES or Triple DES Encryption (subject to UK export approval) 	<p>Bandwidth Optimisation</p> <ul style="list-style-type: none"> Standard: <ul style="list-style-type: none"> V-TEs (VADOS Proprietary) IP/UDP Header compression IP/UDP/RTP Header compression Voice-frame multiplexing Optional: <ul style="list-style-type: none"> Hardware Data Compression (LZS, MPPC) <p>TCP/IP Routing & Ethernet Support</p> <ul style="list-style-type: none"> Standard: <ul style="list-style-type: none"> MAC bridging, IP routing OSPF, RIP, RIP2 NAT/PAT OSI TP4 GOSIP CLNS/CONS BootP Client DHCP client DHCP Server IP/UDP encapsulation with DiffServ Port/Address Filtering Metro Ethernet 802.1p 802.1q Ethernet trunk Optional: <ul style="list-style-type: none"> IPX routing, OSI ES-IS DLC local termination 	<p>Satellite Networking</p> <ul style="list-style-type: none"> Standard: <ul style="list-style-type: none"> Vados VTES SCPC, TDM/SCPC (Integral Support) TDMA (I-Direct, ViaSat, Hughes) Inmarsat BGAN/RBGAN Asymmetrical & Symmetrical clocking Data Splitter/Combiner TCP Acceleration Serial VSAT Terrestrial Link Back up IP VSAT Terrestrial Link Back up <p>Management Support</p> <ul style="list-style-type: none"> Standard: <ul style="list-style-type: none"> 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 Internal protocol Data scope Menu and Presentation Service Security (Password, address validation) Optional: <ul style="list-style-type: none"> IBM Netview
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Optional modules are only included by special order; additional charges may be applicable.

vadEDGE™ | Hardware Specifications

Hardware Specification VE-4150

Ethernet	2 x independent 10/100 Ethernet with Auto Negotiation ¹
High Speed WAN	1 x High Speed WAN ports V.24, V.35, V.36, V.11, Sync (2Mbps) or Async (115Kbps) ²
Low speed WAN	1 x Low Speed WAN Port V.24 only Sync (64kbps) or Async (115Kbps) ³
Fixed PSTN Modem	1 either/or (switched between the adjacent port, not simultaneously)

ISDN	1 x BRI
ADSL	ADSL/ADSL2 ⁵
GPRS	1 with detachable universal jointed antenna
Encryption/Compression	(Optional) Supports DES or Triple DES Encryption and LZS & MPPC ⁴
Supervisory	1 x RS232 control Port

Power AC	External power pack, AC input, 100-240V Frequency 50-60 Hz Current Rating 1.0A
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Physical	
Height	45mm
Width	280mm
Depth	245mm

Environmental	
Operating Temperature	5 to 45 degrees C
Operating Humidity	10% to 90% non-condensing
Storage temperature	-30 to +50 degrees C
Storage humidity	10 to 90% non condensing
Barometric Pressure	98kPa to 134kPa

Note:

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| 1. Maximum 4 independent Ethernet ports per 4150 | 4. Encryption subject to UK Export Approval |
| 2. Maximum 4 high speed WAN ports per 4150 | 5. 2008 Development Roadmap |
| 3. Max 2 BRI per 4150 | |

vadEDGE™ | Ordering Information

VE-4150 Includes fixed PSTN Modem Port

Module Options

VE-ETH	10/100 Ethernet Port Module
VE-WAN	High Speed WAN Interface Module
VE-GPRS	1 GPRS Port Module
VE-PSTN	PSTN Port Module
VE-BRI	BRI Port Module