

V25

Powerful and Compact

vocality
international

PRO Range



Introduction

Over the years, Vocality has delivered thousands of multiplexers and routers to mobile and fixed satellite network operators. Evidence of this experience can be seen in Vocality's smallest multiplexer – a device which offers smart solutions to the demands of the satellite user.

The V25 is very small, but very powerful. Inside the handheld chassis lies a powerful multiplexer and router platform delivering voice and data with a minimum of overhead – cost, space and bandwidth.

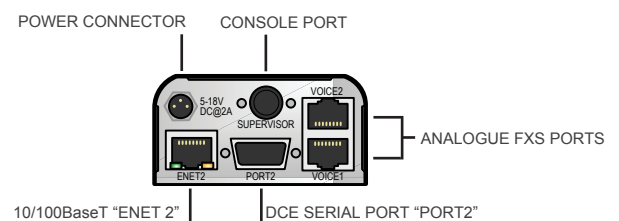
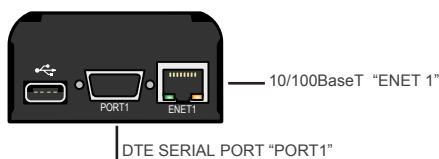
The unit incorporates a full bridge/router with a full range of network functionality, essential in today's IP-rich environments. However, unlike terrestrial multiplexer/routers, the V25 offers bandwidth efficiency which drives down the bandwidth requirements when operating in expensive satellite networks.

MAJOR FEATURES

- High Performance / Small Size
- Designed to be Integrated
- Secure Voice Supported
- Optimised for BGAN
- Serial Mux or IP Router in same unit
- TCP Acceleration / PEP

APPLICATIONS INCLUDE

- News Gathering Communications
- Emergency Order Wire Services
- Bridge Router with TCP Acceleration
- Military Man Pack Systems
- Integrated Flyaway Systems
- Covert Briefcase and Intel Systems
- Secure STU or STE Voice over Inmarsat BGAN and iDirect



spec sheet

V25

SPECIFICATION

MECHANICAL:

Form Factor:	Hand portable/integration/OEM PCB
Option Modules:	SVR only (see below)
Cooling:	Convection cooled, no vents
Operating Conditions:	0-50degC 0-90%RH non-condensing
Storage Conditions:	-40degC to +85degC
MTBF:	>100,000hours at 50degC
Dimensions:	175 x 80 x 40mm
Indicators:	6 red/green for Status, Data1, Data2, Voice1, Voice2, USB 2 Green (RX carrier), 2 Yellow (RX activity) for Ethernet1, Ethernet2
Max. Weight:	450g

FUNCTIONAL:

Electrical:

Line Input Rating:	9-18 V DC@2A
Consumption(max):	<10W
AC Adaptor:	100-240VAC 47-63Hz @ 0.4A

Serial Data ports:

Number of ports:	2
Presentation:	Port1: DB15F HD DTE Port2: DB15F HD DCE
Electrical Interfaces:	V.24, V.11, V.35, V.36, RS449, RS530, RS530A
V.24 Rates:	Async up to 115200bps at standard baud rates Sync int/ext clock in 25bps multiples up to 9600bps Multiples of 800bps up to 15200bps
All others:	Sync int/ext clocks at 25bps multiples up to 9600bps Multiples of 800bps up to 512Kbps Multiples of 8Kbps up to 5.12Mbps
Async Format:	5-8 data bits, OENMS Parity, 1-2.5 stop bits
Sync Format:	Transparent or HLDC NRZ/NRZI
Clocking:	Independent RX/TX with EXT, INT, PLL sourcing
Function:	Aggregate or tributary
Aggregate Protocol:	Vocality Proprietary Packetised

10/100base-T Ethernet Port:

Number of Ports:	2
Presentation:	UTP on 8-way RJ45 with auto-MDIX
Formats:	IEEE 802.3u(10base-T) IEEE 802.3z(100base-TX)
Indicators:	Green (RX carrier), Yellow (RX activity)

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Bridge/Router Capability:

Functions:	IPv4 static router with DHCP client/server/relay RIP, OSPF UDP Relay for Broadcasts Fragmentation and reassembly Dynamic Bandwidth Assignment (DBA) IEEE802.1d Spanning Tree Bridging
Options:	Performance Enhancing Proxy (PEP)

Analogue Voice Ports:

Number of channels:	2
Presentation:	8-way RJ-45
Interfaces:	"2-wire FXS for connection to telephone/trunk port with ring voltage/cadence generation and dial pulse/ring trip detection on all ports" 4-wire Tie-line with keying activation
Compression:	G.723.1 (5.3/6.3Kbps MP-MLQ), G.729 Annex A (8Kbps CS-ACELP), G.726 (16-40Kbps ADPCM), G.727 (16-40Kbps E-ADPCM), G.711 (64Kbps PCM) μ -law or A-law Proprietary NetCoder® (6.4, 7.2, 8.0, 8.8, 9.6Kbps)
Relays:	DTMF Group 3 FAX relay at 2400-14400bps V.32bis Modem relay up to 14400bps Secure Voice Relay (see below)
Signalling:	MFR1, R1, R2, SS4, SS5, AC15, Call Progress
Echo cancellation:	G.168 adaptive (16/32ms tail)
Coding delay:	Per algorithm
Gain:	\pm 31dB programmable in 1 dB Steps
Max. Tieline activation range:	+0.8 to -48V (Relative to Pin 1)

M&C Port:

Presentation:	6-way locking mini-DIN
Electrical Interface:	V.24/RS232 serial
Format:	Async up to 115200bps, No Parity, One Stop Bit
Protocol:	Formatted terminal emulation or TTY mode

SOFTWARE OPTIONS

The following software options may be enabled by installing a Feature Key.

- (1) Performance Enhancing Proxy (SWF/PEP)
- (2) Simple Network Management Protocol (SWF/SNMP)
- (3) VoIP Session Initiated Protocol SWF/SIP2, SWF/SIP8, SWF/SIP16, SWF/SIP30) Number of User Agents (UAs): 2, 8, 16 or 30

HARDWARE OPTIONS

Supplementary Option Card: Secure Voice Relay Card (68718/2):	
Relays:	STU-III, STU-IIB, SCIP(formerly FNBBDT) and STE(analogue)
Rates:	2400, 4800, 9600bps secure or non-secure
No of channels:	Two simultaneously per card

V25 is a product under continuous development. Information given in these pages is for general information only and is subject to change.