

V150

High Density Powerful Platform

vocality
international

PRO Range



Introduction

Vocality International is the industry's leading specialist router and multiplexer manufacturer solely dedicated to the provision of hardware to the satellite communications and military satcom markets.

Vocality's 1RU rack mount chassis offers users access to the full range of Vocality option cards in the smallest form factor. The unit is link compatible with all other Vocality devices making it ideal for both hub and remote site installations.

The V150 is delivered as an empty chassis, into which users install a range of cards, depending on requirements, with most cards also incorporating a built-in high speed IP router and serial port.

The V150 is used in both commercial and military satellite communications networks. Operating in a wide range of network architectures and applications, the V150 is suited to hub and remote applications and deployments.

UTILISED AS

- Voice/Data Multiplexer
- Bridge/Router
- VoIP Gateway
- TCP Accelerator (PEP)

SUPPORT FOR

- Secure Analogue Voice
- Clear Analogue Voice
- Digital Voice
- VoIP
- Serial
- ISDN Voice and Secure VTC
- IP

APPLICATIONS INCLUDE

- Military Operational Comms
- Military Welfare Comms
- Broadcasting and SNG Order Wire Comms
- Oil and Gas Platforms, Pipelines and Exploration
- Rural Telephony and Internet Service Provision

spec sheet

V150

SPECIFICATION

The V150 is designed to support up to 24 analogue voice/fax channels, up to 120 digital voice channels, up to 24 10/100base-T Ethernet switch ports and up to 25 serial data ports. In the interests of channel density, the POTS FXS and FXO interfaces are now offered on separate cards but both still offer 4-wire Tie-line interfaces on the first four channels. STU-III, SCIP (formerly FNBDT) and STE (analogue) support is provided by a dedicated Secure Voice Relay (SVR) module which attaches to each analogue voice module and which offers up to eight channels or 30 channels on the digital voice card. The V150 may interwork with any other unit in the Vocality range or another V150.

MECHANICAL:

Form Factor:	1RU 19" rack mount enclosure
Maximum # of cards:	3
Cooling:	Forced air cooling from two 40mm inlet fans
Operating Conditions:	0-40degC 0-90%RH non-condensing
MTBF:	>200,000hours at 40degC
Dimensions:	482 x 380 x 44mm
Indicators:	5 red/green for Bay status, others per option card
	2 Green (RX Carrier), 2 Yellow (RX activity) for Ethernet1, Ethernet2
	Additional LEDs by option module:
	8 green per FXS voice
	8 green per FXO voice
	8 yellow per Ethernet switch
Max. Weight:	2.5Kg (Without Cards)

Electrical:

Line Input Rating:	100-240VAC 47-63Hz @ 2A
Consumptions(max):	125W
AC Adaptor:	Filtered IEC inlet and optional IEC on umbilical for backup PSU

M&C Port:

Presentation:	6-way locking mini-DIN (shares Alarm connector)
Electrical Interface:	V.24/RS232 serial
Format:	Async up to 115200bps
Protocol:	Formatted terminal emulation or TTY mode

Alarm Port:

Presentation:	6-way locking mini-DIN (shares M&C Connector)
Electrical Interface:	Single pole voltage-free changeover relay
Contact rating:	24VAC 1A

FUNCTIONAL:

Option Cards

Up to three option cards may be installed in the V150 from the V150/V200 range of cards.

Many cards in this range are based on the 68151 Standard CPU Card, characterized by the addition of a specific module.

V150 is a product under continuous development. Information given in these pages is for general information only and is subject to change.

MODULES AVAILABLE

- 68201 High-speed CPU
- 68204 High-speed Quad Data (expandable to 12 channels)
- 68207 E1/T1 Digital Voice
- 68151 Standard CPU
- 68153 FXS Analogue Voice
- 68156 FXO Analogue Voice
- 68154 Ethernet Switch
- 68154/PoE Ethernet Switch (Power over Ethernet)
- 68157 ISDN BRI (1 or 4 BRI)

The V150 is designed with the same architecture as its larger stablemate, the V200, with a three-slot backplane and the option of a backup power supply module. The leftmost card bay must be occupied by a CPU card and this may be either a V150 Standard CPU Card or a High Speed CPU card as fitted to the V200. Any additional cards may be selected from the modules above for the remaining two bays.

The standard V150 chassis has a single high-reliability 125W PSU which is capable of supplying power to all three slots with plenty in reserve under worst-case conditions. For critical applications however, the unit may be fitted with a second identical PSU.

