

BASICS voice

Deployable Voice Over Satellite



BASICS Range



Introduction

Vocality's multi-function routers and multiplexers are used in their thousands in satellite networks worldwide. Vocality has, one by one, taken the core functionalities from these devices and extracted them to produce significantly lower cost, standalone units so operators with a single requirement need can address it with the BASICS unit that suits them.

'BASICS voice' is a small device, built to be deployed with fixed and mobile satellite terminals, to add voice functionality with the lowest cost and complexity.

As a SIP ATA it can provide 2 or 4 analogue telephone ports for onward connection into IP networks that support SIP based VoIP such as CISCO Call Manager.

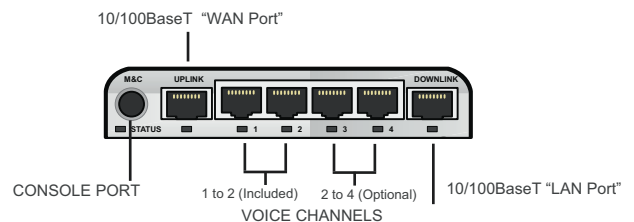
Alternatively, it can efficiently multiplex up to 4 telephone circuits over an IP aggregate to a Vocality hub device at a gateway site.

MAJOR FEATURES

- Mode 1: POTS to SIP Converter
- Mode 2: Vocality Style Satellite Optimised Voice
- Rugged OEM Option
- Bandwidth Optimised Voice
- Small Form Factor
- Low Power
- SIP Compatible
- Cisco MAR Compatible

APPLICATIONS INCLUDE

- Rural Telephony
- Phones into VSAT flyaways and trucks
- Enhance third party routers with voice (such as CISCO Mobile Access Router)
- Add telephone services to iDirect or BGAN terminals



spec sheet

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BASICS voice

SPECIFICATION



OEM READY
FOR QUICK AND
EASY INTEGRATION

As well as a boxed version, BASICS is also available as an OEM standalone board, with wraparound aluminium heat-jacket, designed for embedding within satellite modems, integrated size-reduced kits or man-packs. With deployment firmly in mind they will fit almost anywhere! All Vocality BASICS devices are designed to cascade together, ensuring a simple method of adding multiple devices together in expanding sites. The 'BASICS voice' device, for example, can be cascaded into a 3 unit stack, delivering 12 voice channels which appear as one stack of units.

MECHANICAL:

STANDALONE ENCLOSURE 68553/BOX

Form Factor:	Standalone enclosure
Cooling:	Conduction by internal Heat Jacket to case
Operating Conditions:	0-70degC 0-95%RH non-condensing
Shock and Vibration:	TBD
MTBF:	TBD
Dimensions:	123 x 136.5 x 26.5mm
Indicators:	4 blue voice channel status LEDs, 2 blue Ethernet port status LEDs, 1 bicolour red/green status LED, White case LEDs
Max. Weight:	250g

Electrical:

Line Input Rating:	5V DC@3A
Consumption(typ):	10W

Connectors:

DC Power:	4-way locking Power Connector
M&C:	6-way Locking Mini-DIN
Ethernet:	2 x 8-way RJ45
Analogue Voice:	4 x 8-way RJ45

OEM VERSIONS 68553

Form Factor:	PC104plus card with Heat Jacket
Cooling:	Conduction by Heat Jacket to host
Operating Conditions:	0-70degC 0-95%RH non-condensing
Shock and Vibration:	TBD
MTBF:	TBD
Dimensions:	95.89 x 90.17 x 15.1mm
Indicators:	LED Drivers available. Refer to Manual.
Max. Weight:	150g

Electrical:

Line Input Rating:	5V DC@3A
Consumption(typ):	10W

Connectors:

DC Power:	Screw-down terminals
M&C:	Via 10-way AMP System-50 RA connector for LEDs/console
Ethernet:	UTP on 10-way AMP System-50 RA connector
Analogue Voice:	4 pairs on single 10-way AMP System-50 RA connector

FUNCTIONAL (Common to all Form Factors):

M&C Port:

Electrical Interface:	V.24/RS232 serial
Format:	Async 9600bps (115200bps during software upload), 8, N, 1
Protocol:	Formatted terminal emulation or TTY mode

10/100base-T Ethernet Ports:

Number of Ports:	2
Presentation:	Auto-MDIX
Formats:	IEEE 802.3i(10base-T), IEEE 802.3u(100base-TX)
Protocol Support:	DNS Client, DHCP Client, Telnet
Functionality:	Vocality IP Aggregate, IP passthrough, SIP voice gateway
Bridge/Router capability:	IP passthrough

Analogue Voice/FAX Ports:

Number of channels:	2 standard expandable to 4 by Feature Key
Interfaces:	2-wire FXS for connection to telephone with ring voltage/cadence generation and dial pulse/ring trip detection on all ports
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
Relays:	DTMF, Group 3 FAX relay at 2400-14400bps
Signalling:	MFR1, R1, R2, SS4, SS5, Call Progress
Echo cancellation:	G.168 adaptive (16/32mS tail)
Coding delay:	Per algorithm
Gain:	\pm 31dB programmable in 1 dB

SOFTWARE OPTIONS

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

(1) SWF/4V	Activate all four voice ports
(2) SWF/SNMP	SNMP management option (SNMP v2c & v3 traps)

"BASICS VOICE is a product under continuous development.

Information given in these pages is for general information only and is subject to change."