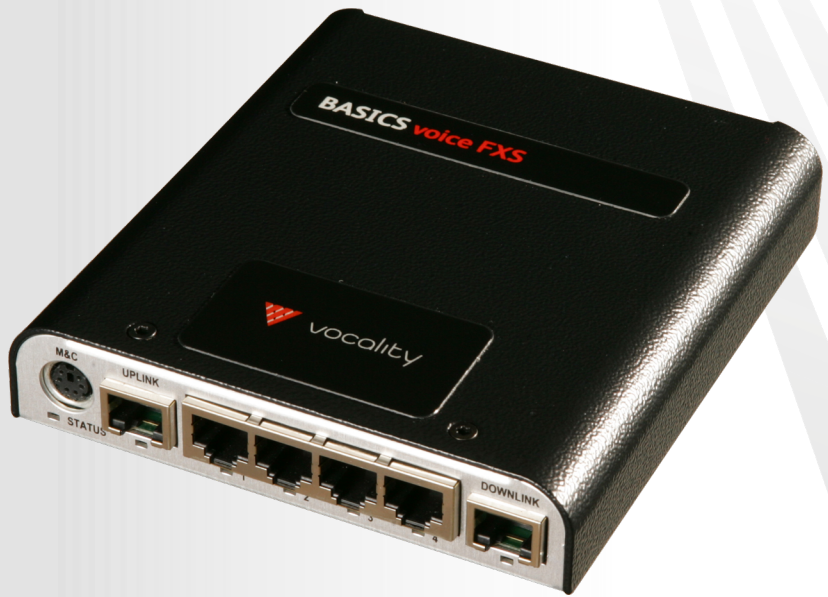


# BASICS Voice Datasheet

## KEY FEATURES

- ▼ Connect analog telephones (FXS) or telephone exchanges (FXO) to modern IP-based telephones (VoIP systems)
- ▼ Compatible with SIP systems such as CISCO CallManager and Asterisk
- ▼ Voice optimization for clear voice over low bandwidth links

## COMPATIBLE WITH



POTS voice



VoIP



IP Router



Hand portable

**BASICS Voice provides the ability to connect analog telephone systems to modern IP-based telephone systems.**

### MIGRATE ANALOG TELEPHONES TO IP

Maximize existing telephone infrastructure investment and reduce disruption to your business by connecting existing analog telephone systems to modern IP-based telephone systems, quickly and easily.

BASICS Voice provides the ability for standalone analog telephones and telephone exchanges (PBX) to be connected to more modern Voice over IP (VoIP) telephone systems.

### SUPPORT FOR MULTIPLE SYSTEMS

This unit can support connectivity to many different manufacturers' equipment, including CISCO, Avaya and Asterisk. This results in a unified system, regardless of the analog brand or technology.

### SECURE CALLS OVER SATELLITE

There is built-in support for secure voice traffic from handsets such as STE and Sectera Wireline terminals. STE calls can be maintained, even over a low bandwidth satellite link, for hours at a time.

### OPTIMIZATION AND ACCELERATION

Vocality's optional voice optimization and data acceleration are included as standard, for clearer voice, even over low bandwidth links such as satellite.

### OTHER MODELS WITH THIS FUNCTIONALITY:

- ▼ BASICS PC104 form factor units for system integrators;
- ▼ BASICS Rackmount to sit alongside other BASICS units;
- ▼ BASICS Toughbox for harsher conditions.

For details see separate datasheets .

# Technical Data

## MECHANICAL

Form Factor:	Standalone enclosure
Cooling:	Conduction by internal Heat Jacket to case
Operating Conditions: boxed*	FXS: -40-70degC ambient 0-95%RH non-condensing FXO: 0-70degC ambient 0-95%RH non-condensing
Shock and Vibration:	TBC
MTBF:	>150,000hours at 70degC
Dimensions:	4.84 x 5.37 x 1.04in / 123 x 136.5 x 26.5mm
Indicators:	4 blue voice channel status LEDs, 2 blue Ethernet port status LEDs, 1 bicolor red/green status LED, white case LEDs
Weight:	0.68lb / 308g
<b>Electrical:</b>	
Supply Input Rating:	5V DC +/-5%
Consumption(typ):	FXS: 9.5W FXO: 3.5W
Mains Adapter:	100-240V AC @1A, 50-60Hz (Output 5V DC@4A)
<b>Connectors:</b>	
DC Power:	4-way locking Power Connector
M&C:	6-way Locking Mini-DIN
Uplink, Downlink Ethernets:	2 x 8-way RJ45
Analogue Voice Ports:	4 x 8-way RJ45
Part number:	68593/RP/1 for FXS or 68556/RP/1 for FXO

## FUNCTIONAL — COMMON TO ALL FORM FACTORS

### M&C Port:

Electrical Interface:	V.24/RS232 serial
Format:	Async 9600bps, 8 data bits, no parity, 1 stop bit
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
Functions:	Vocality IP Aggregate, IP passthrough, SIP voice gateway
Bridge/Router capability:	IP passthrough

### Analogue Voice/FAX Ports:

Number of channels:	1 standard (expandable to 4 by Feature Key)
Interfaces on FXS version:	2-wire FXS for connection to telephone with ring voltage/cadence generation and dial pulse/ring trip detection on all ports
Interfaces on FXO version:	2-wire FXO for connection to PSTN or PBX extension port 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) $\mu$ -law or A-law
Relays:	DTMF, Group 3 FAX relay at 2400-14400bps
Signaling:	Pulse, DTMF, Call Progress
Echo cancellation:	G.168 adaptive (16/32ms tail)
Coding delay:	Per algorithm
Gain:	$\pm$ 31dB programmable in 1dB

## SOFTWARE FEATURE KEYS

SWF/1V	Port activation key (up to 3 per hardware unit)
SWF/UMR1	UMR activation key (up to 4 per hardware unit), on certain hardware variants only
SWF/ROUTER	Standard IP Router (inc PEP & PACE)
SWF/SNMP	SNMP Software Feature Key
SWF/VLAN	VLAN Feature Key

\* When the equipment is adequately protected from direct user contact, the equipment will reliably operate with an ambient temperature within the specified range. When the equipment is installed in a user-accessible location, adequate heatsinking must be provided to ensure the case temperature does not exceed 70degC (BS EN60950-1:2006 Table4C) for user protection.

BASICS Voice is a product under continuous development.

Information subject to change. Correct at time of printing. Mar 2017.

Please be advised that Vocality offers two variants of VOS software — one including IPSec and SSH features and one without these features. The IPSec / SSH variant of the software is subject to UK dual-use export control restrictions, whereas the software without IPSec / SSH is not subject to specific export control.

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