

BASICS IP Router Datasheet

KEY FEATURES

- ▼ Wide temperature range IP router
- ▼ Compact size for mobile communications
- ▼ Optional voice optimization and TCP data acceleration
- ▼ Integrated Power-over-Ethernet (PoE) switch



IP Router



Acceleration



Network Security



VoIP



Hand portable

BASICS IP Router is a network router, WAN optimizer, PoE ethernet switch and network security device contained within a single compact product.

HI-SPEC ROUTER FOR MOBILE USE

When you need to connect laptops and VoIP phones back to base, from a wide range of environments, the BASICS IP Router is the perfect solution.

LOW SIZE, WEIGHT AND POWER

The router takes size reduction seriously with a palm-sized format that's ideal for use in remote locations and man packs.

The integrated PoE switch allows PoE compatible devices to be connected directly to the router without the need for additional power source.

SMALL SIZE, BIG PERFORMANCE

The router may be small in size but it is powerful enough to support many features usually associated to higher-end routers, including QoS, IPSec, VLAN, GRE and more.

OPTIMIZATION AND ACCELERATION

Vocality's optional voice optimization and data acceleration are included as standard, able to reduce the bandwidth required by up to 60%. Ideal for use over satellite networks.

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*	-40degC to +60degC ambient 0-95%RH non-condensing
MTBF:	>200,000hours at 60degC
Dimensions:	4.84 x 5.37 x 1.04in / 123 x 136.5 x 26.5mm
Indicators:	4 blue switch port status LEDs, 2 blue Ethernet port status LEDs, 1 bicolor red/green status LED, white case LEDs LED Signals for core features. LED main lights able to be disabled for tactical requirements.
Supply Input Rating:	5V DC +/-5%
Consumption(typ):	12.5W
PoE Secondary Input:	-48V DC isolated
Weight (boxed product):	0.68lb / 308g

Electrical:

Supply Input Rating:	5V DC +/-5%
Consumption(typ):	12.5W
Mains Adapter:	100-240V AC @ 1A, 50-60Hz (Output 5V DC@4A)
PoE Secondary Input:	-48V DC isolated

Connectors:

DC Power:	4-way locking Power Connector
M&C:	6-way Locking Mini-DIN
Ethernet:	6 x 8-way RJ45
Part number:	68551/RP

FUNCTIONAL — COMMON TO ALL FORM FACTORS

Memory:	512MB RAM, 128MB Flash Memory
Maximum Performance:	Line Throughput of 183Mbps duplex with a frame size of 64bytes
Hardware Encryption:	Hardware-supported encryption accelerator, IP Security (IPSec), Secure Sockets Layer with transparent LAN services (SSL/TLS), Triple Digital Encryption Standard (3DES), Advanced Encryption Standard (AES), Internet Key Exchange (IKE) V1 & V2, Secure Shell (SSH) Server V2

Interfaces

Fast Ethernet:	Six 10/100base-T Ethernet ports (uplink, downlink and four switch ports)
M&C:	RS232 console port, Telnet and SSH

Software Specifications

Operating System:	Vocality Operating System (VOS) which incorporates a base of real time operating system, ThreadX for maximum performance and reliability.
Networking Standards:	DHCP Client/Server/Relay, IEEE802.1d Spanning Tree Bridging, Bridge Groups
Routing Protocols:	RIPv2, Open Shortest Path First (OSPF) V2, Border Gateway Protocol (BGP), PIM-DM, ToS/Diffserve
VLANs:	Up to 32 VLANs supported per router
Encapsulations:	802.1q VLAN tagging, Generic routing encapsulation (GRE), Vocality IP Aggregate
Additional Product Support:	Telnet, Secure Shell (SSH) Protocol
Satellite-aware Routing:	PACE (Packet Aggregation for Communications Efficiency) includes: RTP header compression, Jitter buffer optimization, TCP/PEP, VoIP optimization through codec forcing and other feature

Security

NIST Accreditation	FIPS 140-2 Level 1, FIPS 140-2 Level 2 with VOS08_42.05 software
Suite-B Support	Vocality has licensed Suite B for Suite-B-GCM-128, Suite-B-GCM-256, and Suite-B-GMAC-256 as described in RFC-4869. Implementation of Suite-B support is dependent on customer funded accreditation.
Authentication	Route and router authentication, IP basic and extended access lists through Service Management
Secure Connectivity	Tunnel VPN, Transport VPN, Dynamic Multipoint VPN (DMVPN) Spoke
Firewall	Vocality Service Management
Security Protocols	IPSec, SSH, SSL/TLS
Traffic Management	QoS, Generic traffic shaping, Committed access rate, Weighted Fair Queuing, 802.1q Class of Service, Bandwidth Pool Management
Management Services	Vocality Push Config Compatible, Multi-level user accounts, SNMP Versions 2 and 3, Telnet, SSH, Console Port, Syslog, Trivial File Transfer Protocol (TFTP) Client, DHCP Relay, In-Band Remote Node Configuration, Full Script Command Language
Address Conservation	NAT, DHCP

SOFTWARE FEATURE KEYS

SWF/SNMP	SNMP Software Feature Key
SWF/IPMULTICAST	IP multicast routing (IGMP & PIM-DM) support

* 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 IP Router 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.

Functionality present in this product may be restricted by your choice of VOS software version.

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