

# TRP1G Business

## Specifications



### WAN

100/1000Base-SX/LX/BX (SFP)  
100Base-T (RJ45), option

### LAN PORTS

1 x 10/100/1000 Base-T  

- Copper, UTP, RJ45 Connector
- IEEE Std 802.3ab

 7 x 10/100 Base-T  

- Copper, UTP, RJ45 Connector
- IEEE Std 802.3ab

### VOICE PORTS

2 x Independent VoIP FXS ports  

- RJ-11 connector
- ETSI Standard ES 202971

### VOIP

- SIP 2.0 RFC3261
- Voice coding: G.711 a-law/u-law
- Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Echo Cancellation
- Caller ID
- Adaptive jitter buffer
- RTP voice packet encapsulation
- Call Waiting Indicator
- Message Waiting Indicator
- Fax : G711 Pass-through
- In-Band/Out-Band DTMF Translation

### QUALITY OF SERVICE (QoS)

- Four QoS queues per port with strict or weighted fair queuing scheduling.
- Super priority queues for protecting CPU control traffic.
- QoS classification based on IEEE 802.1p, Ether Type, VID, IPv4 DSCP and UDP/TCP ports and ranges.
- Ingress policer per class and egress shaper per port with programmable granularity.

### SECURITY OPTION – FIREWALL

The optional firewall (\*) contains the following rules:

- Traffic to/from a DHCP server placed on the DMZ LAN is blocked from going through the DMZ Bridge. Traffic to/from DHCP clients on the DMZ LAN is allowed to pass through the DMZ Bridge.
- Port forwarding of any UDP/TCP port to specified internal IP address, which is setup on the basis of a list of destination, IP-addresses and ports in the device configuration.
- Traffic forwarded between the WAN and LAN is NAT'ed to the WAN IP-address.

### MANAGEMENT & CONFIGURATION

Configuration of the Gateway is based on a configuration file from the TFTP server. Any changes in device configuration or firmware are automatically downloaded, and the system reconfigures itself to the new configuration. In the event of firmware upgrade the Gateway only reboots if the telephones are idle.

Monitoring of the Gateway can be done by use of SNMP or SSH, which provides a secure way of reading statistics and system information.

### LAYER 2 OPERATIONS

- Layer 2 wire speed packet switching
- Tag based IEEE 802.1Q VLAN's
- IEEE 802.1Q tag insertion and stripping
- Rate limiting ingress/egress
- 3 classes of QoS on uplink port
- Port speed 10/100, auto negotiated

### LAYER 3 OPERATIONS

- Intrusion Blocking System
- DHCP client, server and relay
- Dynamic IP address assignment
- NAT
- Statefull Inspection Firewall

### PROTOCOLS & STANDARDS

- IPv4 RFC791
- TCP, UDP RFC1144
- NAT RFC1631
- DHCP RFC2131
- SIP 2.0 RFC3261
- G.711 a-law
- IEEE 802.1P/MAC w authentic.
- IEEE 802.1Q,
- IEEE 802.2, IEEE 802.3x
- RTP/RTCP RFC1889
- TFTP RFC1350
- ARP RFC826

### STATUS LEDS

- Power On/Battery operation
- POTS: Registered / Rejected by server/ Off-hook
- LAN activity
- WAN Link Activity

### BATTERY OPERATION

Rechargeable Lithium-Ion Battery

- 11.1V – 1800mAh Typ.

Battery Supported Phone Operation

- Minimum 3 Hours operation

### POWER CHARACTERISTICS

Input 15 VDC, 800mA (peak)

Power Consumption 10W Typ.

AC adapter: 90 – 250VAC, 50/60 Hz

### PHYSICAL DIMENSIONS

HxWxD: 40 x 270 x 168mm (CPE)

Weight: 600g

### ENVIRONMENTAL SPECS.

Operating Temperature 0°C to 40°C

Storage Temperature -10 °C to 70 °C

Operating Humidity 5% to 85% RH

### APPROVALS

CE Marking, Safety EN 60950, UL 1950

Emission FCC Part 15 Class B Part 68

EN301489, EN55022 Class B

Immunity EN55024

### ORDERING INFORMATION

The TRP1G Product ordering code is:

**TRP1G-G-E-B-U** where:

**-B** = Backup Battery included

**-U** = USB ports included

### ACCESSORIES

#### TRP1G-FGMK

Fibre Guide Mounting Kit, including fibre guide, splicing clamp, fibre guide cover, mounting bracket, tamper-proof screw.

# TRP1G Business

# VISIPIA



FEATURES	TRP1G-G-E (Optical)	TRP01G-G-E (Electrical)
<b>WAN</b>		
100/1000Base-SX/LX/BX	X	-
10/100 Base-T	o	X
<b>LAN</b>		
1 Gbit Base-T RJ45 connector	X	X
7 100Mbit Base-T RJ45 connector	X	-
6 100Mbit Base-T RJ45 connector	-	X
<b>VOIP</b>		
2 x FXS (POTS)	X	X
SIP	X	X
Voice Coding G.711	X	X
Voice Activity Detection (VAD)	X	X
Comfort Noise Generation (CNG)	X	X
Echo Cancellation	X	X
DTMF	X	X
Caller ID	X	X
<b>EXTRAS</b>		
Battery Backup	o	o
USB 2.0	o	o
<b>QoS</b>		
802.1q, 802.1p, DSCP	X	X
Classification and tag rewrite	X	X
Port based Rate limiting	X	X
Storm control	X	X
<b>LAYER 3</b>		
NAT/PAT	X	X
DHCP Server	X	X
DHCP Client	X	X
Local DNS Server	X	X
LAN Support	X	X
Ethernet Ports	X	X
Auto Login and Keep-alive	o	o
Passthrough (WAN ↔ LAN through firewall)	X	X
Wire speed hardware NAT	X	X
QoS	X	X
<b>LAYER 2</b>		
Packet switching	X	X
Tag based IEEE 802.1Q VLAN's	X	X
IEEE 802.1Q tag insertion and stripping	X	X
Traffic type per VLAN (Management, VoIP, Internet NAT)	X	X
QoS	X	X

(x)=Standard, (o)=Optional, (-)=Not on this model