

# FireBrick FB6102 Ping



Product Name: FireBrick FB6102 Ping

Manufacturer: -

Model Number: FB6102

## FireBrick FB6102 Ping

The FireBrick FB6102 Ping is designed to ping things. It can ping lots of hosts (IPv4 and IPv6) and create CQM graphs showing loss and latency. Typical applications include a broadband ISP monitoring lines for problems as well as central monitoring of equipment and servers and network links.

- 100,000 endpoints pinged every second and recorded on CQM graphs which can be archived daily.
- Integration with RADIUS accounting and BGP to identify endpoints dynamically (feature)\*.
- SNMP monitoring of ping status for easy integration in to network management applications.
- Very low power consumption (around 30W), dual PSU, 1U box. Saves money on space and power in data centre.

\* This is a specialist product and we would closely with each customer to ensure it operates to their requirements. Some of the features listed are planned and will be added to the product as required to meet customer demand.

## FireBrick FB6102 Ping - Technical Specifications

### Licencing

Full features for one price, no per session licencing or other extra costs.

### Warranty

One year warranty on hardware against any manufacturing defect. Normal working hours / courier replacement. Recommended that two units are used together to provide hardware redundancy.

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On-going maintenance contracts available for extended hardware support beyond one year.

### Hardware

1U, dual AC 120/240V inlets (monitored), 2 internal fans (monitored), approx 30W total power consumption.

Multi-position 19" rack mount ears, with variation for hanging mount in shallow depth telco racks.

Power at rear, ethernet ports at front.

### Software upgrades

Free of charge, beta and released software. Internal flash holds last 10 versions with automatic fallback on crash/watchdog.

Reboot or software upgrade with clean shutdown of L2TP, BGP, VRRP, etc, for minimal disruption. Boot time under 1 second.

UK based s/w support team - email and irc support during office hours.

### Configuration

Configuration defined by an XML document according to a published XSD schema. The configuration may be uploaded and downloaded by HTTP (e.g. using curl). In addition the web interface contains an interactive configuration editor as does the command line interface.

Configuration changes are applied as seamlessly as possible when loaded without the need to re-boot.

### Command line interface

The command line provides a number of commands to provide viewing of BGP, and pinging status data, as well as clearing BGP sessions. Includes tab completion and interactive help text.

The command line is available via telnet and ssh and serial connection.

### Ports

Two physical copper gigabit ethernet ports allowing 4096 VLANs on each. 10 independent routing tables which can be used with BGP. Each port/VLAN can be attached to a specific routing table.

Access control

Access lists of telnet, ssh, tftp, web, snmp. These can also be attached to an independent routing table for specific port/VLANs.

Syslog

Syslog to external server with various levels of debugging data available. Logs also available live via command line interface.

CQM

CQM provides graphs for last day, and for nightly archive, for ping sessions based on circuit ID or login from RADIUS or IP for BGP, or manually configured.

- 100,000 separate graphs.
- LCP echo every second on every session aggregated to 100 second samples over last day.
- Packet loss to 1%.
- Minimum, Average, and Maximum latency to 4 decimal places of ns.
- Directly http served CSV for analysis.
- Directly http served PNG graphs for direct integration in to support systems.
- Hashed URL for linking for external authenticated viewing.
- Configurable colours and text and data selection.
- Configurable scoring of graphs for matching similar lines and identifying common problems.

RADIUS

Will accept RADIUS accounting to manage endpoints dynamically.\*

SNMP

SNMP (read only) support for a number of functions including interface stats for each port/VLAN in use and individual ping state (up/down).

NTP

Simple NTP client to set clock for accurate logging with fallback via list of configured servers.

DHCP/RA

DHCP client mode available, multiple instances. Also RA client for IPv6 addressing.

RA server for passive IPv6 address allocation to LAN.

VRRP

IPv4 VRRP2 and IPv4/6 VRRP3 server.

- Multiple VRRP IP addresses per port/VLAN.
- Can use standard floating MAC address, or can use fixed per machine MAC with promiscuous ARPs as configured.
- Dynamic VRRP priority based on routability of a list of addresses, allows VRRP to only become master when external routing in place.
- Pingable VRRP addresses for easier diagnostics.

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**Please Enquire**

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