

RA-BS6500-32H BARE METAL SWITCH

OVERVIEW

The Ragile RA-BS6500-32H is a new generation high performance and high density 50G switch comply with Open19™ specification, which provide 3.2Tbps in-band and 51Gbps out-of-band switching capacity to driven a large-scale wire-speed non-blocking network.

RA-BS6500-32H provides high density 48-port 50G in-band interface and 48-port 1G out-of-band interface and 8-port 100G Quad Small Form-Factor Pluggable (QSFP28) up-link interface supporting 25/100Gbps high performance flexible-scale datacenter networks. All 50G and 1G interface can be connected to Open19™ servers with Molex Impel break-out cable. The platform provide hot-pluggable 4+1 redundancy cooling fan module to meet the high reliability requirement of datacenter networks.

RA-BS6500-32H is Broadcom ICOS certified and equipped with a x86 CPU and BMC. The switch can also be used as a bare metal switch, customer can install any NOS needed.



PRODUCT HIGHLIGHTS

Performance

- 8×QSFP28 100G up-link Ports
- 48×50G Ports
- 48×1G Out-of-band Ports
- Base on Broadcom BCM56960 (Tomahawk)
- Up to 3.2 Terabits per second
- Up to 3.3 Billion packets per second
- Wire speed L2/L3 forwarding

Data Center Optimized Design

- Typical power of under 4W per 100G port
- 4+1 redundant & hot-swappable fans
- Rear-to-front cooling
- Toolless maintenance and simple installation

Cloud Networking Ready

- 16 MB Integrated Smart Buffer
- 136 K MAC entries
- Up to 128 K IPv4 Routes
- Up to 84 K IPv6 Routes
- Up to 136 K Multicast Groups
- Up to 128-way ECMP

Resilient Control Plane

- Intel Xeon D-1527 (4 core @ 2.2GHz, 6MB LLC, 35W)
- Support up to 48G DDR4 2133/1600 ECC
- 128 GB SSD

Advanced Provisioning & Monitoring

· Self-configure and recover from USB

^{*} The above table is the maximum capacity that the switching chip can provide.

SPECIFICATIONS

Switch ModelRA-BS6500-32HPorts (Module)8×QSFP28Ports (Cable)48×50G

48×1G (out-of-Band)

Throughput 3.2 Tbps
Packets/Second 3.3 Bpps
Latency 450 ns

CPU Intel Xeon D-1527

System Memory 8 GB (Up to 48G DDR4 2133/1600 ECC)

System Storage 128 GB SSD BMC AST1250

Switch ASIC Broadcom BCM56960 (Tomahawk)

 Packet Buffer Memory
 16 MB

 10/100/1000 MGMT Ports
 3 (RJ-45)

 RS-232 Serial Ports
 1 (RJ-45)

 USB Ports
 1 (Type-A)

Power Supplies 12V DC (Amphenol DWR-P1P-BQ200-1A7

connector)

Hot-swappable Fans5 (4+1 redundant)AirflowRear to frontTypical Power Draw290WTypical Heat Dissipation989.77 BTU/hr

Size(W×H×D) $17.126 \times 1.72 \times 34.513$ in.

(435×43.7×876.64mm) 27.5 Pounds (12.5kg)

POWER SUPPLY SPECIFICATIONS

Power Supply 550W

Weight

 Input Voltage
 100-240V AC
 240V DC

 Typical Input Current
 7.2-3.5A (AC)
 3.6A (DC)

Input Frequency (AC)50~60HzInput ConnectorIEC 320-C13Efficiency (Typical)94% Platinum

STANDARD COMPLIANCE

EMC Emissions: FCC, EN55022,

EN61000-3-2, EN61000-3-3 or EN61000-3-11, EN61000-3-12 (as applicable) Immunity: EN55024 Emissions and Immunity: EN300 386

Safety UL/CSA 60950-1, EN 60950-1,

IEC 60950-1 CB Scheme with all country differences

European Union Directives 2006/95/EC Low Voltage Directive

2004/108/EC EMC Directive 2011/65/EU RoHS Directive

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature
Storage Temperature
Relative Humidity
Altitude (Operating)
Altitude (Non-operating)

32° F to 104° F (0°C to 40°C) -40° F to 158° F (-40°C to 70°C) 5% to 95% non-condensing Designed to meet: 0 ft to 10,000 ft

-1000 ft to 30,000 ft

ORDER INFORMATION

Model Description

RA-BS6500-32H 48-port 50G, 8-port 100G QSFP28

48-port 1G out-of-band

3-port 1G MGMT, 1-port Console, 1-port USB 5 slots for fan modules.

5 fan modules already included.

BS6500-40FAN-R Fan module for, rear-to-front airflow.

With up to 5 fan modules, support 4+1 redundancy.

MORE INFORMATION

Phone: +1-408-772-9724 Email: info@ragilenetworks.com

Address: 35649 Embassy Common,Fremont,CA

For more information about the Ragile RA-BS6500-32H switch, please visit http://www.ragilenetworks.com or contact your local Ragile sales representative.