

TSBC-HW-SRV-MID Server for TelcoBridges' FreeSBC



The TelcoBridges **TSBC-HW-SRV-MID** is a carrier-grade hardware platform to run the FreeSBC session border controller designed for Network-to-network interface (NNI SBC), peering and access functions (access SBC).

Reaching performances up to 30,000 concurrent sessions with session establishment rates of 1,000 sessions per seconds under attack, the TSBC-HW-SRV-MID is the most cost-effective session border controller hardware platform for service providers currently available on the market. This specific hardware configuration has been tested and approved by TelcoBridges to guarantee the performances behavior of the product.

Product Characteristics:

- ✓ 1U slim form factor
- ✓ Integrated hardware RAID1
- ✓ 10GE or GigE configuration
- ✓ Out-of-band management

Please refer to the FreeSBC datasheet for a detailed description of supported SBC functionalities.

TSBC-HW-SRV-MID Data Sheet

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Characteristics

Single Xeon E3-1240, 4C/8T, 3.5GHz
 16GB RAM RDIMM, 2400MHz
 2x 200GB SSD
 NUMA optimized for PCIe faster accesses
 Dell iDRAC8 out-of-band interface

Interfaces

Configuration for 10GE interfaces:

Management: 2x GigE copper
 Control: 2x GigE copper
 VoIP: 2x 10GBASE-T

Configuration for GigE interfaces:

Management: 2x GigE copper
 Control: 2x GigE copper
 VoIP: 6x GigE copper

High Availability & Redundancy

Power supply redundancy
 Hardware RAID1 on SSD

Electrical Characteristics

100 to 240 VAC, 50/60 Hz
 Hot-swap redundant power supplies
 Maximum 350W power consumption

Performance

Metrics	Performance
Max. nb. of concurrent sessions (no transcoding)	30,000
Max. nb. of concurrent sessions (with all channels transcoded)	15,000
Max. nb. of completed sessions per seconds (CPS/CSPS)	1,000
Max. nb. of sessions attempts per seconds (CAPS/SAPS)	
when refused by routed destination endpoint	1,400
when refused by routing engine	2,000
when refused while in congestion	5,400
Max. nb. of registration per seconds (RPS)	4,200
Max. nb. of registration refresh per seconds (RRPS)	18,000
Max. nb. registered devices ¹	350,000

⁽¹⁾ With one contact per address-of-record (AOR)

Dimensions & Weight

1U, 19" rackmount
 1.68" (42.8 mm) H x 18.99" (482.4 mm) W x
 24" (610 mm) D
 30.42 lbs (13.8 kg)

Environmental

Operating temperature:
 +5 to +40 °C, 5% to 85% rel. hum. with 29°C maximum
 dew point, non-condensing.
 Storage temperature:
 -40 to +65 °C, 5% to 95% rel. hum. with 33°C maximum
 dew point, non-condensing.
 RoHS compliant

Regulatory Compliance

CISPR 22/CISPR 24
 CE Mark Class A
 EN 55022/55024
 IEC/EN 60950-1