TSBC-HW-SRV-HIGH

High performance server for TelcoBridges' FreeSBC

The TelcoBridges **TSBC-HW-SRV-HIGH** 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 60,000 concurrent sessions with session establishment rates of 1,100 sessions per seconds under attack, the TSBC-HW-SRV-HIGH 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
- ✓ Single IP for media and signaling
- ✓ Telco-grade hardware
    - o NEBS3 certified
    - o Supports AC or DC redundant power supplies
    - o Integrated hardware RAID
- ✓ High-rate network interfaces
    - o 10GE network interface cards
    - o Optical (SFP+) connectors
- ✓ Out-of-band management

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

TSBC-HW-SRV-HIGH
Data Sheet

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Characteristics

Dual Xeon E5-2643, 6C/12T, 3.4GHz
24GB RAM RDIMM, 2400MHz
2x 200GB SSD
NUMA optimized for PCIe faster accesses
Dell iDRAC6 out-of-band interface

Interfaces

Management:
    2x GigE copper
Control:
    2x GigE copper
VoIP:
    4x 10GE SFP+ SR optics (850nm)

High Availability & Redundancy

Power supply redundancy
Hardware RAID1 on SSD

Electrical Characteristics

100 to 240 VAC, 50/60 Hz or -48 to -60 VDC
Hot-swap redundant power supplies (AC or DC)
Maximum 573W power consumption

Dimensions & Weight

1U, 19" rackmount
1.68" (42.8 mm) H x 18.98" (482.3 mm) W x
    27.57" (700.5 mm) D
39.33 lbs (17.84 kg)

Environmental

Operating temperature:
    +10 to +35 °C, 10% to 80% 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.
NEBS Level 3
RoHS compliant

Regulatory Compliance

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

HS Code
85176200

Performance

Metrics	Performance
Max. nb. of concurrent sessions (no transcoding)	60,000
Max. nb. of concurrent sessions (with all channels transcoded)	30,000
Max. nb. of completed sessions per seconds (CPS/CSPS)	1,100
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	6,000
Max. nb. of registration per seconds (RPS)	4,700
Max. nb. of registration refresh per seconds (RRPS)	19,800
Max. nb. registered devices[1]	350,000

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