

Aperi A1105 Ethernet Switch/Compute

Aperi's A1105 1RU Switch/Compute platform provides unparalleled density and integration of low latency switching and high-performance computing.



Technical specifications

Dimensions:

16.9" x 23" x 1.7" (430 x 584 x 44 mm) [1RU]
Weight (with 5 microservers): 25.2 lb. (11.43 kg)

Physical Connections:

Front: 2x QSFP+ 40GbE
8x SFP+ 1/10GbE
5x SDMP-4S microserver slots
Back: 6x RJ45 1GbE Ethernet
1x RJ45 MGMT Port (isolated control)
1x RS-232 serial port
2x USB 3.0

System Performance:

Dual-core x86 processor @ 1.7 GHz API
8GB DDR3 RAM
32GB Flash Storage
Throughput of 523Gbps, maximum 900ns latency

Agency Compliance:

EMC: FCC Part 15 Class A
EN 55022 Class A
Safety: UL 60950-1
EN 60950-1
CSA-C22.2 No. 60950-1
Environmental: RoHS 2002/95/EC

Operating Environment:

0° to 50° ambient temperature for chassis
-40° to 85° storage temperature
Relative humidity: 5% to 90%

Power Specifications (AC):

Maximum power: 400W
Input voltage: 100–240 V (AC)
Input frequency: 50–60 Hz

Power Specifications (DC):

Maximum power: 400W
Input voltage: -36 to -72 VDC (DC)

Additional Features Layer 2:

100BASE-T w/ 1, 10 & 40 GbE
128K L2 forwarding entries
Jumbo frames (9,216 Bytes)
Static MAC Filtering
802.1D Spanning Tree (STP), 802.1w Rapid STP, 802.1s Multiple STP
802.3ad Link Aggregation, 16 ports/channel, 64 groups/system
802.1as Timing and synchronization

VLAN:

802.1Q/802.1ac VLAN (4K); 802.1ad Q-in-Q
Port mirroring
IGMP snooping v1/v2/v3
MLD snooping/querier
Protected ports
Protocol, IP subnet, and MAC-based VLANs

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