

Agema Open Networking Platform AG5648

Designed as the next generation TOR, the Agema AG5648 bare-metal switch provides high-density low latency 25GbE SFP28 connectivity to servers while providing 6x100GbE QSFP28 uplinks, all in a resilient 1RU package making it ideal for enterprise and data center Top of the Rack (ToR) deployment.

The AG5648 is configured with 48 x 25GbE SFP28 ports and 6 high bandwidth 100GE QSFP28 Uplinks. The device is pre-loaded with ONIE (Open Network Install Environment) ready to support the customers choice of modular extensible Network Operating Systems (NOS) benefiting users to achieve future proof SDN/NFV capable solutions, network scalability, flexibility and cost effectiveness. It delivers 1.8Tbps of switching fabric with ultra low sub-µsec latency, and also provides 1+1 resilient power in a very compact 1RU chassis.

Key Features

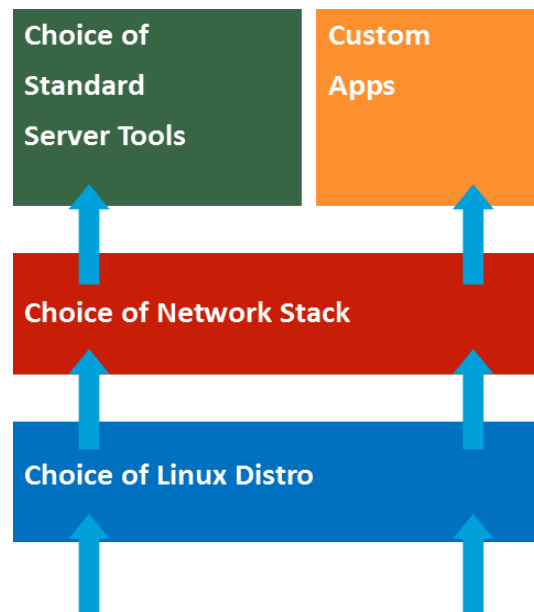
- 1RU high-density 48x25G + 6x100GE ToR.
- Up to 1.8Tbps of switching I/O bandwidth and available non-blocking wire-speed switching fabric.
- Support for open automated configuration and zero-touch provisioning capabilities simplify the management of network environments.

High Bandwidth

As bandwidth-intensive applications such as Web 2.0, virtualization, High Performance Computing (HPC) and Network Attached Storage (NAS) drive the transition to 25Gbps server connections within data centers and 100GbE Leaf/Spine interconnects, the AG5648 enables the transition to support this level of performance at the top of rack.

High Availability

The AG5648 has two slots for hot-swappable PSUs (Power Supply Units) and 4 fan trays. SFP28/QSFP28 Transceiver modules can be easily removed and replaced with no interruption to the network. These hot-swappable modules guarantee the continued delivery of essential services.



Agema Hardware Switch Platform



Technical Specification

Ordering Information	Physical	Regulatory Compliance	Performance
6 x 100GbE QSFP28 ports	6 line-rate 100GbE QSFP28	Safety: EN 60950-1, UL/CSA 60950-1, IEC 60950-1, CCC Emissions: AS/NZS CISPR 22: Class A, ICES-003, Issue Class A, EN 55022: Class A, VCCI Class A, FCC CFR 47 Part 15, Subpart B Class A, CCC Immunity: EN 300 386, EN55024, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-5, EN 61000-4-6, EN61000-4-8, EN61000-4-11 EU RoHS Compliant	Integrated Packet Buffer Memory: 16 MB MAC Address: Max 136K Switch Fabric: 1.8Tbps (3.6 Tbps full duplex) IPv4 host table size: 8K min/72k max. IPv6 host table size: 4K min/36k max. L2 Multicast Table: 64K L3 multicast Groups: 32K Support Jumbo frames up to 12KB VLAN: 4K AG5648 Tomahawk AG5648V1 Tomahawk+
48 x 25GbE SFP28 ports	48 line-rate 25GbE SFP28		
Single Serial RJ45 console	1 USB-A type port		
Single USB 2.0 type-A port	1 Serial RJ45 console ports		
Single 10/100/1000M RJ45 OOB Management port	1 RJ45 OOB Management Port		
2 slots for PSUs	CPU: Intel Rangeley C2538		
4 slots for fans	8GB SSD		
Power Supplies & Fans	4GB DDR3		
2 Hot-swappable AC power supply (shipped with single PSU)	16MB SPI-Flash		
4 Hot-swappable FAN tray	Dimension (WxDxH): 438.5x460x43mm		
Options:	Weight: 7.99 kg	<h3>Software Specification</h3> <ul style="list-style-type: none"> ONIE Pre-installed Zero Touch Provisioning via DHCP 	
• Bare Metal Only	Power supply: 100–240 VAC 50/60 Hz		
• Fixed Configuration	Power consumption: Typical 369 Watts; Max. 550 Watts		
	*Compatible with 550W DC power supply		
	Operating temperature: 0 to 40°C		
	Operating relative humidity: 10 to 90% RH		



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