

ESP-9210

High Performance 10/40GbE Top of Rack Ethernet Switch



Features

Hardware

- Built-in Intel Broadwell-DE series CPU options
- Broadcom switch solution
- 720Gbps forwarding bandwidth
- Fiber support 6x QSFP+ and 48x SFP+
- Embedded Broadcom FASTPATH to support L2/L3 features
- Redundant & Hot-swappable PSU design
- 4x hot-swappable fan modules
- Network boot nodes from the switch
- IPMI 2.0 compliant hardware management function
- Provide ONIE pre-loaded option



Introduction

The ESP-9210 is a new generation switch from Advantech Networks and Communications Group and it is optimized for use in software-defined networks (SDN) requiring 10 and 40 Gigabit Ethernet connectivity. It combines a high performance, low-latency Broadcom StrataXGS® switch for up to 720Gbps of forwarding bandwidth and a various Intel Broadwell-DE series processor options, providing a powerful and flexible platform that supports enhanced features essential for top-of-the-rack deployment in modern data center switching installations. Data center networks require increasingly denser 10GbE and 40GbE connectivity at the access and aggregation layers in order to address the higher speed network interface cards being deployed in servers and the increased link utilization due to widespread use of virtualization.

With fiber support for six 40GbE QSFP+ ports and forty-eight 10GbE SFP+ ports in a 1U rackmount design, the ESP-9210 can be used to build highly scalable, feature-rich, top-of-rack switches, and aggregation equipment to connect big data, cloud and optimized workloads in the data center.

Redundant, hot swappable, power supplies and fans, along with IPMI 2.0 and OpenIPMI hardware management interfaces provide the high availability and management features which equip the switch for managing business-critical traffic. In addition, the front-to-rear or rear-to-front cooling capabilities of the ESP-9210 help to reduce air conditioning costs by matching the airflow of other servers in the rack. One 10/100/1000 Ethernet RJ45 port and two ports are available for out-of-band management with two USB3.0 ports available for installation and maintenance needs. Please contact your local Advantech sales office for more details.

Specifications

Processor, Memory and Switch	Processor	Intel Broadwell-DE series
	Switch Chip	Broadcom StrataXGS®
	Memory	2x DDR4 SO-DIMM, up to 32G
	Storage	2x M.2 SATA, up to 1TB
	Forwarding Bandwidth	720Gbps
Ethernet I/O	Fiber Version	48x 10GbE SFP+ 6x 40GbE QSFP+
	Management I/O	
Management I/O	Ethernet	2x GbE RJ-45
	Serial	1x RJ-45 Type console port
	USB	2x USB3.0
System FRU	Power supply	2x Redundant AC PSU
	Power input	AC 100 -240 V @ 47-63 Hz, full range
	Type/Watt	450 W 2U (1+1 redundant, 450 W each)
	System power	322 Watt Max.
	System Fans	4x Hot-swappable redundant FAN trays
Physical	Dimension (W x D x H)	440x446x44 mm (17.32" x 17.56" x 1.73")
	Weight	10 kg
Environment	Operating	0 to 45° C
	Storage	- 20 to 70° C

Ordering Information

Part Number	Description
ESP-9210-10AA10	48 ports 10GbE SFP+, 6 ports 40GbE QSFP+, with CPU Intel Broadwell-DE 1518, AC power
ESP-9210-10AA20	48 ports 10GbE SFP+, 6 ports 40GbE QSFP+, with CPU Intel Broadwell-DE 1548, AC power

Please contact your Advantech regional sales office or email ncg@advantech.com for additional ordering information and pricing.