



HPE SYNERGY 6820C 25/50GB CONVERGED NETWORK ADAPTER (P02054-B21)

Server Adapters



OVERVIEW

Do you want to improve your performance and bandwidth without increasing your hardware complexity?

The HPE Synergy 6820C 25/50Gb Ethernet Adapter provides more than two times the bandwidth compared to 10/20Gb adapters. Therefore, it simplifies hardware implementation by reducing the number of adapters, associated switches and compute modules required to achieve higher bandwidth.

The networking acceleration on this adapter alleviates the CPU utilization, increases the number of virtual machines (VMs) placed on each server, and improves the cloud scale efficiency. Pairing with the HPE Synergy high-density 50G Ethernet switching solution, this adapter provides high throughput and low latency to implement intelligent and flexible networks.

FEATURES

Provide High Performance and Low Latency

The HPE Synergy 6820C 25/50Gb Ethernet Adapter delivers single root I/O virtualization (SR-IOV) with the ability to run a large number of VMs per server, which reduces the need for hardware and the resultant costs for space and power that hardware devices require.

Reduces CPU Utilization and helps improve host VM density and server efficiency using remote direct memory access (RDMA) offload with support for iWARP, RDMA over Converged Ethernet (RoCE), and RoCEv2 protocols for Live Migration, Microsoft® SMB Direct environments.

Speed up Network-intensive Applications

The HPE Synergy 6820C 25/50Gb Ethernet Adapter lessens the total cost of ownership (TCO) and CAPEX by providing 25/50Gb connectivity compared to 10/20Gb connectivity.

Offloads packet processing to reduce CPU utilization and lower power with tunnel offloads (VXLAN, GENEVE and NVGRE).

Technical specifications

HPE Synergy 6820C 25/50Gb Converged Network Adapter

Product Number	P02054-B21
Data rate	25/50Gb
Bus type	PCIe Gen3 x16
Form factor	Mezzanine
Product Dimensions (metric)	21.49 x 24.69 x 6.2 cm
Weight	0.26 kg



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

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- Integrate and migrate
- Operate and improve
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- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

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Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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