



# HPE SYNERGY 6820C 25/50GB CONVERGED NETWORK ADAPTER

## 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

<b>Data rate</b>	25/50Gb
<b>Bus type</b>	PCIe Gen3 x16
<b>Form factor</b>	Mezzanine



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

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### Operational Services from HPE Pointnext Services

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- Retire and sanitize
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### 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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