

# QuickSpecs

## HPE Ethernet 10Gb 2P 570SFP+ Adapter

### Overview

#### HPE Ethernet 10Gb 2-port 570SFP+ Adapter

The HPE 570SFP+ is a dual-port 10Gb Ethernet Onload server adapter is based on Solarflare's second generation 10GbE controller, Solarflare™ SFC9020, and delivers unmatched message rates with low latency and jitter over standard Ethernet along with the lowest CPU utilization and power consumption, enabling the industry's best performance and scalability for financial services and other enterprise data centers.

The HPE 570SFP+ comes with both low profile and standard brackets and has two SFP+ cages that enable connections with DACs as well as SR fiber optic modules. It supports high performance networking features such as VLAN tagging, low latency interrupts, TCP and UDP checksum offloading, MSI-X, NIC teaming (bonding), Receive Side Scaling (RSS), jumbo frames, and PXE boot.



HPE 570SFP+ - Low profile bracket



HPE 570SFP+ - Standard bracket

### Models

## Overview

HPE Ethernet 10Gb 2-port 570SFP+ Adapter

718904-B21

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### Kit contents

- HPE Ethernet 10Gb 2-port 570SFP+ Adapter
- Full height bracket (installed on card)
- Low-profile bracket
- Quick install card
- Product warranty statement

## Compatibility

### Servers

ProLiant DL (rack-optimized):

- HPE ProLiant DL360p Gen8
- HPE ProLiant DL380p Gen8
- HPE ProLiant DL560 Gen8

**NOTE:** This is a list of Supported Servers. Some may be discontinued.

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## Standard Features

### Dual-port 10 Gigabit Ethernet Throughput

The 20,000 Mbps full duplex Ethernet transfer rate per port (40 Gbps aggregate full duplex) delivers outstanding network performance that improves response time and removes bottlenecks for the next generation data center. 10 Gigabit Ethernet bandwidth is ideal for financial services, high performance computing, database clusters, iSCSI storage, storage backups, grid systems, virtualization, server and I/O consolidation, fabric consolidation, and more.

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### PCI Express Interface

The HPE 570SFP+ Adapter is designed with an eight lane (x8) PCI Express bus based on the PCIe v2.0 standard. The adapter is backward compatible with four lane (x4) PCI Express, automatically auto-sensing between x8 and x4 slots.

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### Jumbo Frames

The HPE 570SFP+ Adapter supports jumbo frames (also known as extended frames), permitting up to a 9K byte (KB) transmission unit (MTU) when running Ethernet I/O traffic. This is over 5X the size of a standard 1500-byte Ethernet frame. With jumbo frames, networks can achieve higher throughput performance and greater CPU utilization. These attributes are particularly useful for database transfer and tape backup operations.

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### TCP/IP Stateless Offloading

For overall improved system response, the HPE 570 SFP+ adapter supports standard TCP/IP offloading techniques including:

- TCP/IP checksum offload (TCO) moves the TCP and IP checksum offloading from the CPU to the network adapter.
- Large Send Offload (LSO) or TCP Segmentation Offload (TSO) allows the TCP segmentation to be handled by the adapter rather than the CPU.

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### Interrupt Coalescing

Interrupt coalescing (interrupt moderation) groups multiple packets, thereby reducing the number of interrupts sent to the host. This process optimizes host efficiency, leaving the CPU available for other duties.

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### 802.1p QoS Tagging

IEEE 802.1Q virtual local area network (VLAN) protocol allows each physical port of the HPE 570SFP+ adapter to be separated into multiple virtual NICs for added network segmentation and enhanced security and performance. VLANs increase security by isolating traffic between users. Limiting the broadcast traffic to within the same VLAN domain also improves performance. The HPE 570SFP+ Adapter provides support for 802.1Q (VLAN).

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## Network Management

### Management Support

Like all HPE ProLiant server adapters, the HPE 570 SFP+ adapter ships with agents that can be managed from HPE Systems Insight Manager or other management application that support SNMP.

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### Server Integration

The HPE 570SFP+ Adapter is a validated, tested, and qualified solution that is optimized for HPE ProLiant servers. Hewlett Packard Enterprise validates a wide variety of major operating systems drivers with the full suite of web-based enterprise management utilities including HPE Intelligent Provisioning and HPE Systems Insight Manager that simplify network management.

This approach provides a more robust and reliable networking solution than offerings from other vendors and provides users with a single point of contact for both their servers and their network adapters.

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## Standard Features

**Configuration Utilities** Each HPE 570SFP+ Adapter ships with a suite of operating system-tailored configuration utilities that allow the user to enable initial diagnostics and configure adapter teaming. This includes a teaming GUI for Microsoft Windows operating systems. Additionally, support for scripted installations of teams in a Microsoft Windows environment allow for unattended OS installations.

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**LED Indicators** Bracket LED indicators show link integrity and network activity for easy troubleshooting.

**SR-IOV** The HPE 570SFP+ Adapter is SR-IOV capable in hardware (requires server FW, SW and OS support).

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**Preboot eXecution Environment (PXE)** Support for pre-boot execution environment (PXE) enables automatic deployment of computing resources remotely from anywhere. It allows a new or existing server to boot over the network and download software, including the operating system, from a management/ deployment server at another location on the network. Additionally, PXE enables decentralized software distribution and remote troubleshooting and repairs.

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**Warranty** **Maximum:** The remaining warranty of the HPE product in which it is installed (to a maximum three-year, limited warranty).  
**Minimum:** One year limited warranty.

Additional information regarding worldwide limited warranty and technical support is available at:  
<http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/index.aspx#.V4e3tPkrJhE>

## Service and Support

### Service and Support

#### HPE Technology Services

HPE Technology Services offers you consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, boost availability, and avoid downtime.

#### Protect your business beyond warranty with HPE Pointnext operational services

When you buy HPE Options, it's also a good time to think about what level of service you may need. HPE Pointnext operational services provide total care and support expertise with committed response choices designed to meet your IT and business need.

HPE Foundation Care services deliver scalable support-packages for Hewlett Packard Enterprise industry-standard servers and software. You can choose the type and level of service that is most suitable for your business needs. New to this portfolio is HPE Collaborative Support. If you are running business critical environments, Hewlett Packard Enterprise offers Proactive Care or Critical Advantage. These services help you deliver high levels of application availability through proactive service management and advanced technical response.

Here is the support service recommendation from the Foundation Care and Proactive Care portfolio. For customized support service solution, Hewlett Packard Enterprise can work with you to tailor a service solution for your unique support requirements using broader services portfolio of Foundation Care and Proactive Care.

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## Recommended HPE Pointnext operational services for optimal satisfaction with your HPE product

### Recommended Services

#### 3-Year HPE 24x7 4 hour Response, Hardware Support Onsite Service

Provides you with rapid remote support and if required an Hewlett Packard Enterprise Authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged.

<http://h20566.www2.hp.com/portal/site/hpsc?ac.admitted=1467740454177.125225703.1938120508>

OR

#### 3-Year HPE 24x7 4 hour Response, HPE Collaborative Support

Offers customers a single point of contact for server problem diagnosis, hardware problem resolution, and basic software problem diagnosis, fault isolation, and resolution if available to HPE. If the problem is with HPE HW, the representative will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged. In case, the issue is with HPE or supported third-party software product and cannot be resolved by applying known fixes, Hewlett Packard Enterprise will contact the third-party vendor and create a problem incident on your behalf.

#### HPE ProLiant Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner

<https://www.hp.com/h20195/v2/GetDocument.aspx?docname=5981-9356EN>

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## Related HPE Pointnext operational services to enhance your HPE product experience

**Related Services**    **3-Year HPE 24x7 4 hour Response, Proactive Care or Critical Advantage**

## Service and Support

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your query or issue end to end until resolved, delivering a single point of contact for you

<http://h20566.www2.hp.com/portal/site/hpsc?ac.admitted=1467740454177.125225703.1>

**OR**

### **3-Year HPE 6-hour Onsite Call-to-Repair, HPE Collaborative Support**

Offers customers a single point of contact for server problem diagnosis, hardware problem resolution to return the hardware in operating condition within 6 hours of the initial service request to the HPE Global Solution Center, and basic software problem diagnosis, fault isolation, and resolution if available to HPE. In case, the issue is with HPE or supported third-party software product and cannot be resolved by applying known fixes, Hewlett Packard Enterprise will contact the third-party vendor and create a problem incident on your behalf.

### **HPE Proactive Select Service**

Provides a flexible way to purchase HPE best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. [https://www.hp.com/h20195/v2/GetDocument.aspx?docname=4AA3-](https://www.hp.com/h20195/v2/GetDocument.aspx?docname=4AA3-8855ENW&search=4AA3-8855ENW)

[8855ENW](https://www.hp.com/h20195/v2/GetDocument.aspx?docname=4AA3-8855ENW&search=4AA3-8855ENW)

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### **Insight Remote Support**

Provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. Learn more

<http://www.hp.com/info/insightremotesupport>

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### **HPE Support Center**

Personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers. Learn more

<http://h20564.www2.hp.com/hpsc/doc/public/display?docId=c04844073>

The HPE Support Center Mobile App\* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Care Pack or Hewlett Packard Enterprise contractual support agreement.

**\*The Hewlett Packard Enterprise Support Center Mobile App is subject to local availability**

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### **Parts and materials**

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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 QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

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### **Warranty / Service Coverage**

For ProLiant servers and storage systems, this service covers HPE-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.

## Service and Support

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HPE as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.

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### For more information

To learn more on services for HPE ESSN Options, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Or visit:

<https://www.hpe.com/us/en/servers>

**Related Options**

<b>Direct Attach Cable</b>	HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 0.5m Direct Attach Copper Cable	487649-B21
	HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 1m Direct Attach Copper Cable	487652-B21
	HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable	487655-B21
	HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable	537963-B21
	HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
	HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
	<b>NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments.</b>	

<b>Fiber Optic Modules</b>	HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	455883-B21
	HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver	455886-B21
	HPE BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver	453151-B21
<b>NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments.</b>		

<b>Fiber Optic Cables</b>	HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
	HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
	HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
	HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
<b>NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments.</b>		

<b>Gigabit Server Adapters</b>	HPE NC365T 4-port Ethernet Server Adapter	593722-B21
	HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21

<b>10 Gigabit Server Adapters</b>	HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HPE Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21

## Related Options

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HPE Ethernet 10Gb 2-port 561T Adapter	716591-B21
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### FlexibleLOM Adapters

**NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.**

#### Ethernet Adapters

HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
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HPE Ethernet 10Gb 2-port 530FLR-SFP+ Adapter	647581-B21
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HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
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HPE Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
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HPE Ethernet 10Gb 2-port 570FLR-SFP+ Adapter	717491-B21
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#### FlexFabric Adapters

HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
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HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
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## Technical Specifications

<b>General Specifications</b>	<b>Network Processor</b>	Solarflare (SFC9020)	
	<b>Data rate</b>	Two ports, each at 20 Gbps full duplex; 40 Gbps aggregate full duplex theoretical bandwidth.	
	<b>Bus type</b>	PCI-e v2.0 at 5 GT/s, x8	
	<b>Form factor</b>	Standard and low profile adapter compliant with the PCIe standard	
<b>Power and Environmental Specifications</b>	<b>IEEE Compliance</b>	Solarflare (SF 9020) 802.3, 802.1ab, 802.3x, 802.3ad, 802.3p, 802.1q, 802.3ae	
	<b>Operating Temperature</b>	41° to 131° F (5° to 55° C)	
	<b>Humidity</b>	5% to 95% non-condensing	
	<b>Power</b>	7.5W maximum (5.9W Typical)	
	<b>RoHS Compliance</b>	5 of 6	

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<b>Operating System Support</b>	Red Hat Enterprise Linux 5.8, 5.9, 6.2 and 6.3 SLES 10 SP4 and 11SP2		
	<b>NOTE: For more Linux OS support &amp; certification information, please visit our the ProLiant &amp; BladeSystem Server Linux matrix:</b> <a href="http://h17007.www1.hpe.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#.V4e8tPkrJD8">http://h17007.www1.hpe.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#.V4e8tPkrJD8</a>		

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<b>Environment-friendly Products and Approach</b>	<b>End-of-life Management and Recycling</b>	<p>Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <a href="http://www.hpe.com/info/recycle">http://www.hpe.com/info/recycle</a>. To recycle your product, please go to: <a href="http://www.hpe.com/info/recycle">http://www.hpe.com/info/recycle</a> or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.</p>
		<p>The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: <a href="http://www.hpe.com/info/recycle">http://www.hpe.com/info/recycle</a>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HPE OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.</p>

## Summary of Changes

Date	Version History	Action	Description of Change
23-Oct-2017	From Version 5 to 6	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
26-Aug-2016	From Version 4 to 5	Changed	Standard Features section was updated.
		Removed	Obsolete SKUs were deleted: 221691-B21, 221691-B22, 221691-B23, 221692-B21, 221692-B22, 221692-B23, 221692-B26, 221692-B27, 503746-B21, 412648-B21, 435508-B21, 394791-B21, 394793-B21, 538696-B21, 458492-B21, 468332-B21, 593717-B21, 489892-B21, 581201-B21, 614203-B21, 629135-B21, 629138-B21, 629142-B21.
10-Sep-2013	From Version 3 to 4	Changed	Compatibility, 10 Gigabit Server Adapters, and FlexibleLOM Servers were revised.
03-May-2013	From Version 2 to 3	Changed	Updated the Overview Section Standard Features- Network Management Technical Specifications- General Specifications
25-Mar-2013	From Version 1 to 2	Changed	Corrected a spelling error in the title.



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