# QuickSpecs

# HPE Ethernet 10Gb 2-port 530FLR-SFP+ Adapter

## Overview

# HPE Ethernet 10Gb 2-port 530FLR-SFP+ Adapter

The HPE Ethernet 10Gb 2-port 530FLR-SFP+ adapter features the next generation, single chip 10GbE solution from QLogic in a FlexibleLOM form factor designed for select HPE ProLiant servers.

The HPE 530FLR dual-port design with a total aggregate throughput of 20 Gb meets the needs for customers desiring high bandwidth. The HPE 530FLR supports enterprise class features such as VLAN tagging, adaptive interrupt coalescing, MSI-X, NIC teaming (bonding), Tunneling Offloads (NVGRE, VxLAN),# Receive Side Scaling (RSS), jumbo frames, PXE boot and virtualization features such as SR-IOV, Network Partitioning, VMware NetQueue and Microsoft VMQ.



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# **Platform Information**

## Models

| HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter<br>HP Ethernet 10Gb 2-port 530FLR-SFP+ FIO Adapter |                                                                                                                                                                                                                                                                                                                                          | 647581-B21<br>684210-B21 |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Kit Contents                                                                                   | HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter<br>Quick install card<br>Product warranty statement                                                                                                                                                                                                                                          |                          |
| Compatibility -<br>Supported Servers                                                           | HPE ProLiant DL160 Gen8<br>HPE ProLiant DL360p Gen8<br>HPE ProLiant DL380p Gen8<br>HPE ProLiant DL385p Gen8<br>HPE ProLiant DL560 Gen8<br>HPE ProLiant SL230s Gen8<br>HPE ProLiant SL250s Gen8<br>HPE ProLiant SL270s Gen8<br>HPE ProLiant XL220a Gen8 v2<br><b>NOTE: This is a list of supported servers. Some may be discontinued.</b> |                          |

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# **Standard Features**

| At a Glance Features                 | <ul> <li>Flexible-LOM for select HPE Rack servers</li> <li>Hardware acceleration and offloads for stateless TCP/IP, TCP Offload Engine (TOE)</li> <li>Industry-leading throughput and latency performance</li> <li>Up to 40 Gb/s bi-directional near-line rate throughput</li> <li>Improved small packet performance</li> <li>Tunnel offload support (NVGRE, VxLAN)</li> <li>Integrated PHY and MAC</li> <li>Support for Preboot eXecution Environment (PXE)</li> <li>Optimized for virtual server environments with support for Network Partitioning (NPAR) and Single-Root I/O Virtualization (SR-IOV).</li> </ul> |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Throughput-<br>Theoretical Bandwidth | This adapter delivers 20 Gb/s bi-directional Ethernet transfer rate per port (40 Gb/s per adapter), providing the network performance needed to improve response times and alleviate bottlenecks.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 802.1Q VLANs                         | IEEE 802.1Q virtual local area network (VLAN) protocol allows each physical port of this 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.                                                                                                                                                                                                                                               |
| Configuration Utilities              | This 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 patented teaming GUI for Microsoft Windows operating systems. Additionally, support for scripted installations of teams in a Microsoft Windows environment allow for unattended OS installations.                                                                                                                                                                                                                              |
| DPDK                                 | This adapter supports DPDK with benefit for packet processing acceleration and use in NFV deployments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| HPE Sea Of Sensors<br>3D             | Support for the HPE Sea of Sensors which is a collection of 32 sensors that automatically track thermal activity - heat - across the server. When temperatures get too high, sensors can initiate fans and make other adjustments to reduce energy usage. A significant improvement lies in the ability to apply fan speed increases only to the portion of the system that is rising in temperature, rather than all six fans in unison, which reduces the amount of energy used for cooling.                                                                                                                       |
| Jumbo Frames                         | This adapter supports Jumbo Frames (also known as extended frames), permitting up to a 9,000 byte (KB) transmission unit (MTU) when running Ethernet I/O traffic. This is over five times 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.                                                                                                                                                                             |
| LED Indicators                       | LED indicators show link integrity and network activity for easy troubleshooting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| QuickSpecs                                          | HPE Ethernet 10Gb 2-port 530FLR-SFP+ Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Standard Features                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
| Management Support                                  | This adapter ships with agents that can be managed from HPE Systems Insight Manager or other managemen application that support SNMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |
| Message Signaled<br>Interrupt (Extended)<br>(MSI-X) | Message Signaled Interrupt (Extended) provides performance benefits for multi-core servers by load balancing interrupts between CPUs/cores.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
| Network Adapter<br>Teaming                          | This adapter support for NIC teaming helps IT administrators increase network fault tolerance and increased network bandwidth, the team of adapters can work together as a single virtual adapter, providing support for several different types of teaming enabling IT administrators to optimize availability, improve performance and help reduce costs.                                                                                                                                                                                                                                          |  |  |
| Network Partitioning<br>(NPAR)                      | This adapter supports Network Partitioning (NPAR) allowing administrators to configure a 10 Gb port as four separate partitions or physical functions. Each PCI function is associated with a different virtual NIC. To the OS and the network, each physical function appears as a separate NIC port.                                                                                                                                                                                                                                                                                               |  |  |
| Optimized for<br>Virtualization                     | I/O Virtualization support for VMware NetQueue and Microsoft VMQ helps meet the performance demands of consolidated virtual workloads.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Preboot eXecution<br>Environment (PXE)              | Support for 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.                                                                                                                                                                                                        |  |  |
| Receive Side Scaling<br>(RSS)                       | RSS resolves the single-processor bottleneck by allowing the receive side network load from a network adapter<br>to be shared across multiple processors. RSS enables packet receive-processing to scale with the number of<br>available processors.                                                                                                                                                                                                                                                                                                                                                 |  |  |
| Server Integration                                  | This adapter is a validated, tested, and qualified solution that is optimized for HPE ProLiant servers. Hewlett<br>Packard Enterprise validates a wide variety of major operating systems drivers with the full suite of web-based<br>enterprise management utilities including HPE Intelligent Provisioning and HPE Systems Insight Manager that<br>simplify network management.<br>This approach provides a more robust and reliable networking solution than offerings from other vendors and<br>provides users with a single point of contact for both their servers and their network adapters. |  |  |
| Single-Root I/O<br>Virtualization                   | Single-Root I/O Virtualization (SR-IOV) provides a mechanism to bypass the host system hypervisor in virtual environments providing near metal performance and server efficiency. SR-IOV provides mechanism to create multiple Virtual Functions (VFs) to share single PCIe resources. The device is capable of SR-IOV, and requires Server BIOS support, controller firmware, and OS support.                                                                                                                                                                                                       |  |  |
| TCP/UDP/IP                                          | For overall improved system response, this adapter supports standard TCP/IP offloading techniques including:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |

| QuickSpecs     | HPE Ethernet 10Gb 2-port 530FLR-SFP+ Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
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| Standard Featu | res                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|                | TCP/IP, UDP 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.                                                                                                                                                                                                                                 |  |  |
| ТОЕ            | TCP/IP Offload Engine (TOE) shifts the processing of data in the TCP protocol stack from the server CPU to the adapter's processor, freeing server CPU cycles for other operations.                                                                                                                                                                                                                                                                                                       |  |  |
| Tunnel Offload | Minimize the impact of overlay networking on host performance with tunnel offload support for VXLAN and NVGRE. By offloading packet processing to adapters, customers can use overlay networking to increase VM migration flexibility and virtualized overlay networks with minimal impact to performance. HPE Tunnel Offloading increases I/O throughput, reduces CPU utilization, and lowers power consumption. Tunnel Offload supports VMware's VXLAN and Microsoft's NVGRE solutions. |  |  |
| Warranty       | Maximum: The remaining warranty of the HPE product in which it is installed (to a maximum three-year, limited<br>warranty).<br>Minimum: One year limited warranty.<br>NOTE: Additional information regarding worldwide limited warranty and technical<br>support is available at: <u>http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/index.aspx#.V4e3tPkrJhE</u>                                                                                                             |  |  |

| QuickSpecs                                                            | HPE Ethernet 10Gb 2-port 530FLR-SFP+ Ad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Service and Suppo                                                     | rt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |
| Service and Support                                                   | NOTE: This adapter is covered under HPE Support Services/ Service Contract applied to the HPE ProLiant Server or enclosure. No separate HPE Support Services# need to be purchased. Most HPE branded options sourced from HPE that are compatible with your product will be covered under your main product support at the same level of coverage, allowing you to upgrade freely. Additional support is required on select workload accelerators, switches, racks and UPS options 12KVA and over. Coverage of the UPS battery is not included under HPE support services; standard warranty terms and conditions apply.                                                                                                                                                       |  |  |
| Warranty and Support<br>Services                                      | Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS options 12KVA and over. Coverage of the UPS battery is not included under TS support services; standard warranty terms and conditions apply. |  |  |
| Protect your business<br>beyond warranty with<br>HPE Support Services | HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability.<br>Connect to HPE to help prevent problems and solve issues faster. HPE Support Services enable you to choose<br>the right service level, length of coverage and response time as you purchase your new server, giving you full<br>entitlement to the support you need for your IT and business.<br>Protect your product, beyond warranty.                                                                                                                                                                                                                                                                                                                        |  |  |
| 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 quick-specs, 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 Hewlett Packard Enterprise due to malfunction.                                                     |  |  |
| For more information                                                  | Visit the Hewlett Packard Enterprise Service and Support <b>website</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |

## HPE Ethernet 10Gb 2-port 530FLR-SFP+ Adapter

# **Related Options**

| Cables - Direct Attach | HP BladeSystem c-Class 10GbE SFP+ to SFP+ 0.5m Direct Attach Copper Cable<br>HP BladeSystem c-Class 10GbE SFP+ to SFP+ 1m Direct Attach Copper Cable<br>HP BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable<br>HP BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable<br>HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable<br>HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable<br>HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable<br>HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable<br>HPE FlexNetwork X240 10G SFP+ to SFP+ 7m Direct Attach Copper Cable<br>HPE FlexNetwork X240 10G SFP+ to SFP+ 7m Direct Attach Copper Cable<br>HPE FlexNetwork X240 10G SFP+ to SFP+ 7m Direct Attach Copper Cable<br>HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable | 487649-B21<br>487652-B21<br>487655-B21<br>537963-B21<br>JD097C<br>JD096C<br>JD095C<br>JG081C<br>JC784C |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Cables - Fiber Optic   | HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable<br>HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable<br>HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable<br>HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable<br>HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable<br>HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable<br><b>NOTE:</b> Fiber transceivers and cables must be purchased separately for fiber-optic envir                                                                                                                                                                                                                                                                                                                                                                       | AJ833A<br>AJ834A<br>AJ836A<br>AJ837A<br>AJ838A<br>AJ839A<br>ronments.                                  |
| Transceivers           | HP BladeSystem c-Class 10Gb SFP+ SR Transceiver<br>HP BladeSystem c-Class 10Gb SFP+ LR Transceiver<br>NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic envir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 455883-B21<br>455886-B21<br>ronments.                                                                  |

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## HPE Ethernet 10Gb 2-port 530FLR-SFP+ Adapter

# **Technical Specifications**

| General Specifications                                                                          | Network Processor<br>Data Rate<br>Bus type<br>Form Factor<br>IEEE Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | QLogic 57810S chipset<br>Two ports, each at 20 Gb/s bi-directional; 40 Gb/s aggregate bi-directional<br>theoretical bandwidth.<br>PCI Express 2.0 (Gen 2) x8<br>FlexibleLOM<br>802.3, 802.1ab, 802.3x, 802.3ad, 802.3p, 802.1q, 802.3ae, 802.1Qau,<br>802.3ap                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power and                                                                                       | Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <12W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Environmental<br>Specifications                                                                 | Temperature - Operating<br>Temperature - Non-Operatin<br>Humidity - Operating<br>Humidity - Non-operating<br>Agency Approvals<br>RoHS Compliance<br>Safety                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0° to 55°C (32° to 131°F)<br>g -65° to 85° C (-85° to 185° F)<br>10% to 90% non-condensing<br>5% to 95% non-condensing<br>USA: FCC Part 15 Class A<br>Canada: ICES-003, Issue 4<br>Japan: VCCI V3 (2010.04) Class A<br>International: EN55022:2006 + A1:2007 Class A;<br>EN55024:1998+A1:2011+A2; EN61000-3-2:2006, EN61000-3-3:2008<br>Taiwan: BSMI, CNS13438 (2006) Class A<br>Australia/New Zealand (AS/NZS): EN55022:2006+A12007 class A<br>Korea: KN22 Class A, KN24<br>6 of 6<br>UL Mark (USA and Canada)<br>CE Mark<br>EN 60590 |
| Operating System and<br>Virtualization Support                                                  | The Operating Systems supported by this adapter are based on the server OS support. Please refer to the OS Support Matrix at <b>https://www.hpe.com/us/en/servers/server-operating-systems.html</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Environment-<br>friendly Products and<br>Approach - End-of-<br>life Management and<br>Recycling | Hewlett Packard Enterprise offers end-of-life <b>product return, trade-in, and recycling programs</b> , in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.<br>The EU WEEE Directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the <b>Hewlett Packard Enterprise web site</b> . These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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### HPE Ethernet 10Gb 2-port 530FLR-SFP+ Adapter

# **Summary of Changes**

| Date        | Version History | Action  | Description of Change                                                               |
|-------------|-----------------|---------|-------------------------------------------------------------------------------------|
| 23-Oct-2017 | Version 22      | Changed | Technical specifications - operating system, Service and Support and Part           |
|             |                 |         | and Materials sections were updated.                                                |
| 23-Oct-2016 | Version 21      | Changed | Add DPDK support and update servers.                                                |
| 23-Sep-2016 | Version 20      | Changed | Overview, Standard Features, Service and Support, Related Options,                  |
|             |                 |         | Technical Specifications sections were updated.                                     |
|             |                 | Removed | SKUs deleted in Related Options sections:                                           |
|             |                 |         | 593722-B21, 647594-B21, 615732-B21, 652497-B21, 593717-                             |
|             |                 |         | B21, 614203-B21, 656596-B21, 665249-B21, 716591-B21, 718904-                        |
|             |                 |         | B21, 629135-B21, 665240-B21, 647581-B21, 665243-B21, 700699-                        |
|             |                 |         | B21, 717491-B21, 629138-B21,700759-B21,700751-B21, 629142-                          |
| 10 km 2015  | Version 19      | Changed | B21, 503746-B21.<br>Compatibility, Standard Features, Related Options and Technical |
| 19-Jun-2015 | Version 19      | Changed | Specifications sections were updated.                                               |
|             |                 | Removed | Obsolete SKUs                                                                       |
|             |                 | Removed | 221691-B21, 221691-B22, 221691-B23, 221692-B21, 221692-B22,                         |
|             |                 |         | 221692-B23, 221692-B26, 221692-B27, 412648-B21, 435508-B21,                         |
|             |                 |         | 394791-B21, 394793-B21, 538696-B21, 458492-B21, 468332-B21,                         |
|             |                 |         | 489892-B21, 581201-B21                                                              |
| 28-Nov-2014 | Version 18      | Changed | Overview, Standard Features and Technical Specifications sections were              |
| 201101 2021 |                 |         | updated                                                                             |
|             |                 | Added   | SKU Added on Models: 684210-B21                                                     |
| 10-Sep-2013 | Version 17      | Changed | 10 Gigabit Server Adapters and FlexibleLOM Adapters were revised.                   |
| 01-Mar-2013 | Version 16      | Changed | Updated the Related Options Section.                                                |
| 19-Feb-2013 | Version 15      | Changed | Updated the Overview Section, Standard Features and Related Options                 |
|             |                 |         | Section.                                                                            |
| 04-Jan-2013 | Version 14      | Changed | A description and SKU change was made in the Related Options section.               |
| 04-Dec-2012 | Version 13      | Changed | Changes made in the Compatibility and Related Options sections.                     |
| 10-Oct-2012 | Version 12      | Changed | Change made in the Compatibility section only.                                      |
| 28-Sep-2012 | Version 11      | Changed | Changes made in Related Options section.                                            |
| 24-Sep-2012 | Version 10      | Changed | Changes made in Compatibility section.                                              |
| 31-Aug-2012 | Version 9       | Removed | Removed a note in the Related Options sections.                                     |
| 20-Aug-2012 | Version 8       | Changed | Changes made in Overview and Related Options sections.                              |
| 13-Jul-2012 | Version 7       | Added   | Added Fiber Optic Module to Related Options.                                        |
| 12-Jun-2012 | Version 6       | Changed | Changes were made to General Specifications.                                        |
| 08-Jun-2012 | Version 5       | Changed | Changes were made to the Compatibly, Related Options and Technical                  |
|             |                 |         | Specifications sections.                                                            |
| 18-May-2012 | Version 4       | Changed | Minor edit was made in Operating System Support.                                    |
| 30-Mar-2012 | Version 3       | Changed | Minor edit was made in Operating System Support.                                    |
| 09-Mar-2012 | Version 2       | Changed | Changes made in the Overview, Standard Features and Technical                       |
|             |                 |         | Specifications sections.                                                            |
| 06-Mar-2012 | Version 1       | New     | Initial Version.                                                                    |

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