



ThinkSystem SR950 New Options - March 2018 Article (withdrawn product)

In March, several storage and adapters options became available for the ThinkSystem SR950. Highlights include a new 25Gb SFP28 adapter plus new support for Omni Path adapters and a 100Gb InfiniBand adapter. This article highlights the new options and provides the relevant part numbers.

Intel XXV710-DA2 PCIe 25Gb Two Port SFP28 Ethernet Adapter

The Intel XXV710 25Gb dual-port Ethernet adapter is a flexible follow-on to the X710 10Gb adapters and is best suited for existing 10Gb customers where they need to maintain 10Gb network support plus provide the investment protection of supporting 25GbE network speeds. By providing unmatched features for server and network virtualization, small packet performance, and low power; the data center network is flexible, scalable, and resilient.



Figure 1. ThinkSystem Intel XXV710-DA2 PCIe 25Gb 2-Port SFP28 Ethernet Adapter

Part number	Feature code	Description
7XC7A05523	B0WY	ThinkSystem Intel XXV710-DA2 PCIe 25Gb 2-Port SFP28 Ethernet Adapter

For details on the adapter, see the Intel XXV710 product guide.

QLogic QL41262 PCIe 25Gb 2-Port SFP28 Ethernet Adapter

The ThinkSystem QLogic QL41262 PCIe 25Gb 2-Port SFP28 Ethernet Adapter is based on eighth generation technology from Cavium and features Universal Remote Direct Memory Access (RDMA) to offer concurrent support for RoCE, RoCE v2, and iWARP. It is suitable for existing 10Gb customers who want to maintain 10Gb network support plus provide the investment protection of supporting 25GbE network speeds.

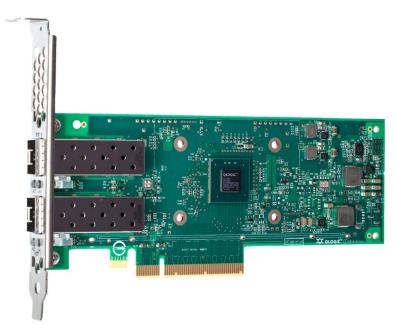




Table 2.	Ordering	information
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Part number	Feature code	Description
4XC7A08228	B21R	ThinkSystem QLogic QL41262 PCIe 25Gb 2-Port SFP28 Ethernet Adapter

For more information about the adapter, see the QLogic QL41262 product guide.

Intel Omni-Path Architecture OPA 100 Host Fabric Adapters

Intel Omni-Path Architecture (OPA) is a family of PCIe adapters, switches, cables, and management software that provides high-performance connectivity between servers.



Figure 3. Intel OPA 100 Series Single-port PCIe 3.0 x16 HFA

Table 3. Ordering information Omni-Path 100 Series adapters.

Part number	Feature code	Description
00WE023	AU0A	Intel OPA 100 Series Single-port PCIe 3.0 x8 HFA
00WE027	AU0B	Intel OPA 100 Series Single-port PCIe 3.0 x16 HFA

For more information, see the Intel OPA adapter product guide.

Mellanox ConnectX-4 1x100GbE / EDR IB QSFP28 VPI Adapter

ConnectX-4 from Mellanox is a family of high-performance and low-latency InfiniBand adapters. These adapters address virtualized infrastructure challenges, delivering best-in-class performance to various demanding markets and applications. Providing true hardware-based I/O isolation with unmatched scalability and efficiency, achieving the most cost-effective and flexible solution for Web 2.0, Cloud, data analytics, database, and storage platforms.

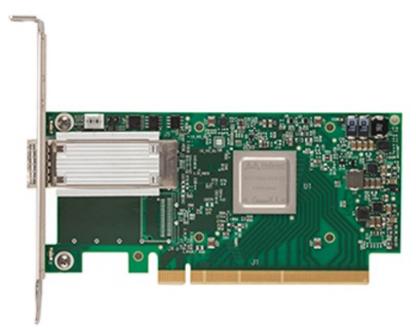


Figure 4. Mellanox ConnectX-4 1x100GbE/EDR IB QSFP28 VPI Adapter

Table 4.	Ordering	information
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Part number	Feature code	Description
00KH924	ASWQ	Mellanox ConnectX-4 1x100GbE/EDR IB QSFP28 VPI Adapter

For more information about this and other ConnectX-4 adapters, see the ConnectX-4 product guide.

Broadcom NetXtreme PCIe 1Gb Ethernet Adapters

The Broadcom NetXtreme Gigabit Ethernet Adapters are a family of high performance PCI Express adapters. The adapters are available with either two ports or four ports.



Figure 5. NetXtreme PCIe 1Gb 4-Port RJ45 Ethernet Adapter

Table 5. Ordering information

Part number	Feature code	Description
7ZT7A00482	AUZX	Lenovo ThinkSystem NetXtreme PCIe 1Gb 2-Port RJ45 Ethernet Adapter By Broadcom
7ZT7A00484	AUZV	Lenovo ThinkSystem NetXtreme PCIe 1Gb 4-Port RJ45 Ethernet Adapter By Broadcom

For information about the Broadcom NetXtreme adapters, see the NetXtreme Gigabit Ethernet Adapters product guide.

Intel I350 PCIe 1Gb Ethernet Adapters

Intel I350 Gigabit Ethernet adapters from Lenovo build on Intel's history of delivering Ethernet products with flexible design and robust driver support. Available in either 1-port fiber configuration or a 2/4-port copper configuration, these adapters offer excellent price/performance, enhanced power-savings, and market-leading I/O virtualization technologies that includes SRIOV and VMDq.

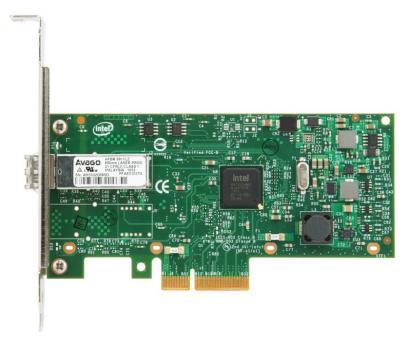


Figure 6. Lenovo ThinkSystem I350-F1 PCIe 1Gb 1-Port SFP Ethernet Adapter By Intel

 Table 6. Ordering part number and feature code

Part number	Feature code	Description
7ZT7A00533	AUZZ	Lenovo ThinkSystem I350-F1 PCIe 1Gb 1-Port SFP Ethernet Adapter By Intel
7ZT7A00534	AUZY	Lenovo ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter By Intel
7ZT7A00535	AUZW	Lenovo ThinkSystem I350-T4 PCIe 1Gb 4-Port RJ45 Ethernet Adapter By Intel

For more information on the I350 adapters, see the Intel I350 Gigabit Ethernet Adapters product guide .

Intel P4500 4.0TB Entry NVMe PCI HHHL Flash Adapter

The Intel P4500 Entry NVMe SSDs are general-purpose yet high-performance drives with a PCIe 3.0 x4 interface. They are designed for greater performance and endurance in a cost-effective design, and to support a broader set of workloads.

The Intel P4500 adapters are based on Intel-developed controller, firmware, and leading manufacturing process NAND flash memory. Rigorous qualification and compatibility testing by Lenovo ensures a highly reliable SSD.



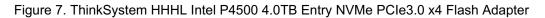


Table 7. Ordering information

Part number	Feature code	Description
7SD7A05776	B11Z	ThinkSystem HHHL Intel P4500 4.0TB Entry NVMe PCIe3.0 x4 Flash Adapter

For details on the flash storage adapter, see the Intel P4500 adapter product guide .

Conclusion

The SR950 is a very configurable system in terms of processors, memory, storage and I/O. Understanding the available options will help you optimize the SR950 to best match your needs for performance, scalability and capabilities.

Further reading

For further reading, see these resources

- Lenovo Press product guide on the SR950
- SR950 product web page

This article is one in a series on the ThinkSystem SR950 and SR850 servers:

- Five Highlights of the ThinkSystem SR950
- Five Highlights of the ThinkSystem SR850
- Choosing between Lenovo ThinkSystem SR850 and SR950
- Workloads for 4-Socket and 8-Socket Servers
- Usability in the Design of the ThinkSystem SR950
- The Value of Refreshing Your 4-Socket Servers with the ThinkSystem SR950
- ThinkSystem SR950 Memory Decisions
- ThinkSystem SR950 Server Configurations
- The Value of Refreshing Your 8-Socket Servers with the ThinkSystem SR950
- Lenovo ThinkSystem SR950 New Options and Features December 2017
- ThinkSystem SR950 Performance Leadership
- Lenovo Servers for Mission Critical Workloads
- Microsoft and Lenovo ThinkSystem SR950 A Perfect Match
- Accelerate Your 4- and 8-Socket Server Refresh Cycle
- SAP Business Process Applications and Lenovo ThinkSystem SR950 A Perfect Match
- ThinkSystem SR950 New Options March 2018
- SAP HANA and Lenovo ThinkSystem SR950 A Perfect Match
- ThinkSystem SR950 Performance Leadership Continues
- New Solution for SAP HANA Lenovo ThinkAgile HX
- The Advantages of Keeping Mission Critical Workloads On-Premises vs Going to the Cloud
- SQL Server Migration and Lenovo ThinkSystem SR950

About the author

Randall Lundin is a Senior Product Manager in the Lenovo Infrastructure Solution Group. He is responsible for planning and managing ThinkSystem servers. Randall has also authored and contributed to numerous Lenovo Press publications on ThinkSystem products.

Related product families

Product families related to this document are the following:

- 4-Socket Rack Servers
- 8-Socket Rack Servers
- Mission Critical Servers
- ThinkSystem SR950 Server

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