

Broadcom 10 GbE SFP+ Network Adapters for System x

Broadcom delivers an extensive family of 10 GbE network adapters

Lenovo offers a Broadcom 10 GbE SFP+ network adapter family that is based on the Broadcom BCM57811S and BCM57810S controllers for select System x® rack server platforms. It leverages Broadcom's longstanding history in Ethernet, providing rock-solid levels of performance, efficiency, and scalability for the enterprise data center.

Virtualization, cloud computing, high performance computing (HPC), and clustering initiatives are increasing workload demands. The Broadcom network adapter family is the solution of choice for workload-intensive computing environments, providing a reliable, high-performance 10 GbE connectivity solution.

Why System x

System x is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.



Specifications



Broadcom 2x10 GbE PCIe Adapter



Broadcom 2x10 GbE Mezz Adapter



Broadcom 1x10 GbE Mezz Adapter



Broadcom 2x10 GbE ML2 Adapter

Part numbers	<ul style="list-style-type: none"> • 00D9700: Broadcom NetXtreme 1x10 GbE SFP+ Embedded Adapter for System x • 44T1360: Broadcom NetXtreme 2x10 GbE SFP+ Mezz (Embedded) Adapter for System x • 94Y5180: Broadcom NetXtreme 2x10 GbE SFP+ Adapter for System x • 00D2028: Broadcom NetXtreme ML2 2x10 GbE SFP+ for System x
Performance	Line rate with auto negotiation for 10 GbE and 1000/100/10 MB Ethernet
ASIC	<ul style="list-style-type: none"> • Single-port: Broadcom BCM57811S • Dual-port: Broadcom BCM57810S
Bus interface	<ul style="list-style-type: none"> • 00D9700: x8 PCIe 2.0 with IBM Mezz slot, one Mezz per server • 44T1360: x8 PCIe 2.0 with IBM Mezz slot, one Mezz per server • 94Y5180: x8 PCIe 2.0 • 00D2028: x8 PCIe 3.0 with IBM Mezzanine LOM slot, one ML2 per server
Supported servers	Visit the ServerProven® page at: ibm.com/servers/eserver/serverproven/compat/us/
Interface	Open SFP+ cages
Performance features	<ul style="list-style-type: none"> • TCP/IP offload engine (TOE) • TCP segmentation/large send offload • Receive-side scaling (RSS) for IPv4 and IPv6 • TCP/IP checksum offload for IPv4 and IPv6 • UDP/IP checksum offload for IPv4 and IPv6 • Message signal interrupt (MSI, MSI-X) support • PXE 2.x support

Specifications



**Broadcom 2x10 GbE
PCIe Adapter**



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**Broadcom 2x10 GbE
ML2 Adapter**

Ethernet features	<ul style="list-style-type: none"> • Jumbo frame support (9600 bytes) • Flow control (IEEE 802.3) • VLAN support (IEEE 802.1q) • Link aggregation (IEEE 802.3ad) • Quality/Class of service (IEEE 802.1p)
Virtualization features	<ul style="list-style-type: none"> • RX/TX multiqueue and VMQ/NetQueue
Power dissipation	<ul style="list-style-type: none"> • 00D9700: 4.74 W typical • 44T1360: 7.14 W typical • 00D20208: 14.4 W typical • 94Y5180: 7.08 W typical
Environmental	<ul style="list-style-type: none"> • Operating temperature: 32° F to 131° F • Storage temperature: -40° F to 149° F • Relative humidity: 5% to 95% noncondensing
Dimensions	<ul style="list-style-type: none"> • 00D9700: Conforms to Mezz form factor • 44T1360: Conforms to Mezz form factor • 00D20208: Conforms to Mezzanine LOM Gen 2 (ML2) form factor • 94Y5180: PCIe standard form factor: 167.64 mm x 68.91 mm (6.6 in. x 2.71 in.). Standard bracket (low-profile available)
Warranty	One year limited warranty.

For more information

To learn more about the Broadcom NetXtreme 10 GbE SFP+ Network Adapter Family, visit ibm.com/systems/x/options/networking/index.html or contact your Lenovo representative or Business Partner.

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IBM x86 products are now products of Lenovo in the U.S. and other countries. Learn more at ibm.com/lenovo-acquisition

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