Broadcom 10GBaseT Network Adapters for System x

Delivering 10 Gigabit Ethernet over an economical cabling infrastructure

The Broadcom NetXtreme 10GBaseT Network Adapter Family for System x® features a robust, standards-based portfolio that delivers economical Ethernet features in an industry-standard PCIe Gen 2 form factor, and exclusive ML2 form factor.

ML2 Network Adapters are placed into a ML2 slot on equipped System x servers, preserving a PCIe slot. IBM ML2 Adapters also enable the System x server's management traffic to be combined with the application traffic. By merging this traffic onto a single port, your cabling and switching costs are greatly reduced.

10GbaseT is an economical solution as compared to SFP+. Most notably, 10GbaseT uses unshielded twisted pair (UTP) cables with industry standard RJ45 interfaces. By using these low-cost cables, the expensive DAC cables and Transceivers are no longer needed. 10G BaseT also increases your flexibility when designing your data center because it supports 100M cable lengths and it is compatible with your existing 1000/100/10 Mbps BaseT network switches.

For more information

To learn more about the Broadcom NetXtreme 2x 10GBaseT Network Adapter Family, please visit:
ibm.com/systems/x/options/networking or contact your Lenovo representative or Business Partner.

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Specifications

Feature	Specification
Part number	• 44T1370: Broadcom NetXtreme 2x10GbE BaseT Adapter • 00D2026: Broadcom NetXtreme ML2 2x10GbaseT Adapter
ASIC	• BRCM57810
Ports	• 2x RJ45
Performance	• 2 ports that auto negotiate 10 G and 1000/100/10 MB Ethernet
Bus interface	• 44T1370: x8 PCIe 2.0 • 00D2026: x8 PCIe 3.0
Cable	• CAT 6a/7: 10 GbE/1 GbE up to 100 meters • CAT 6: 10 GbE up to 55 meters, 1 GbE up to 100 meters • CAT5e: 10 GbE not recommended, 1 GbE up to 100 meters
Bracket size	• 44T1370: Standard (low-profile available) • 00D2026: Conforms to IBM Mezzanine LOM Gen2 (ML2) form factor
Standards	• 10GBASE-T, 1000BASE-T, 100BASE-TX
Performance features	• 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
Ethernet features	• 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	• RX/TX multiqueue • VMQ/NetQueue
Power dissipation	• 44T1370: 21 W typical • 00D2026: 28.4 W typical
Supported servers	Visit the ServerProven® page for the latest supported servers at: **ibm.com**/servers/eserver/serverproven/compat/us/
Dimensions	• 44T1370: 168.4 mm x 68.83 mm (6.6 in. x 2.71 in.) • 00D2026: IBM Mezzanine LOM Gen2 (ML2) form factor
Warranty	One year limited warranty. When installed in an System x server, these cards assume your system's base warranty and any ServicePac® upgrade

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