

Frequently Asked Questions Oracle Quad Port 10GBase-T Adapter

Overview

The transition of enterprise data center networks to 10 Gb Ethernet has been hampered by the cost and complexity in deploying 10 Gb infrastructure. To enable mass adoption of 10 Gb infrastructure, networking technology must allow enterprises to make the most of their existing architectures and their cable plant, which frequently employs twisted-pair copper cabling for server connectivity. Though 10GBase-T commoditized server-to-access-switch connectivity, the first generation of 10GBase-T NICs provided only two ports, requiring multiple adapters to be installed in servers to support the connectivity requirements of virtualized servers.

Oracle Quad Port 10GBase-T Adapter

Oracle Quad Port 10GBase-T Adapter reduces the cost and complexity of deploying 10 Gb Ethernet infrastructure with Oracle servers and storage systems. In addition to supporting 10 Gb Ethernet over low-cost twisted-pair copper cabling, the adapter delivers network and server virtualization features, enhancing the efficiency and security of on-premises clouds and virtualized server deployments.

Customer Benefits

Cost-Effective 10 Gb Ethernet Connectivity

Oracle Quad Port 10GBase-T Adapter cuts the cost of deploying 10 Gb Ethernet infrastructure for Oracle servers and storage systems. The adapter supports 10 Gb Ethernet over twisted-pair copper cabling and provides four 10 Gb ports, decreasing the cost per port for deploying 10 Gb Ethernet by up to 70 percent compared to multimode fiber and up to 40 percent compared to previous generations of 10GBase-T adapters.

Cloud Features for Base-T Deployments

Oracle Quad Port 10GBase-T Adapter provides server virtualization, I/O convergence, and network virtualization capabilities ideal for deploying on-premises cloud and virtualization infrastructure. The adapter supports SR-IOV for server virtualization and enables virtualization of the Ethernet L2 infrastructure through support of overlay networks.

Frequently Asked Questions

Q: What is Oracle Quad Port 10GBase-T Adapter?

A: Oracle Quad Port 10GBase-T Adapter is a four-port Ethernet adapter for Oracle servers and storage systems. The adapter supports 10 Gb connections over twisted-pair copper cabling and provides the latest server and network virtualization features.

Q: What server and storage systems support Oracle Quad Port 10GBase-T Adapter?

A: Oracle Quad Port 10GBase-T Adapter is supported with a number of Oracle platforms. For the current list of supported systems, see community.oracle.com/community/server_&_storage_systems/systems-io.

Q: What operating systems and hypervisors are supported with Oracle Quad Port 10GBase-T Adapter?

A: Oracle Ethernet adapters are components of the Oracle server or storage system in which they are installed. See the list of supported option cards for the applicable server or storage system to determine the relevant operating system support for the system and adapter combination. For the current list of supported systems, see community.oracle.com/community/server_&_storage_systems/systems-io.

Q: What cables are supported with the Oracle Quad Port 10GBase-T Adapter?

A: The adapter supports 10GBase-T, 1000Base-T, and 100Base-T. The following table identifies the cables supported.

Speed	Cable Type	Max. Distance Supported*
10GBase-T	CAT 6	55 meters
	CAT 6a	100 meters
1000Base-T / 100Base-T	CAT 6	100 meters
	CAT 6a	
	CAT 5e	





* Note: Power consumption is significantly influenced by the length of cables used with the adapter. To determine the number and length of cables that can be supported with the adapter, please consult the documentation for the server or storage device the adapter is being installed in.



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