

# Frequently Asked Questions Oracle Dual Port 100 Gb Ethernet Adapter, Mellanox



Modern, high-performance enterprise clouds demand unique capabilities from the supporting networking infrastructure. To efficiently tap into the cloud's physical resources, infrastructure must support the network and storage needs of high-density, virtualized servers and also be capable of virtualizing L2 network infrastructure to enable virtual servers to be interconnected with secure virtual networks. To cater to these requirements, Oracle offers this new high performance ethernet adapter enabling cloud deployments to augment their virtualization technologies and leverage overlay networking technologies.

## Oracle Dual Port 100 Gb Ethernet Adapter, Mellanox

Oracle Dual Port 100 Gb Ethernet Adapter is an ideal server interface for next-generation cloud-enabled data centres. The adapter brings leading edge performance and resources necessary to unleash the full power of multicore, high-performance servers and storage systems. With industry leading throughput, dramatically reduced CPU and system resource utilization and consolidated software-defined I/O services for servers and storage systems, Oracle Dual Port 100 Gb Ethernet Adapter provides the most-efficient, flexible, and high-performance server interface for cloud deployments.

## Customer Benefits

### Virtualization for the Cloud

Oracle Dual Port 100 Gb Ethernet Adapter provides the server virtualization, I/O convergence, and network virtualization features required for high-performance cloud deployments. The adapter has the network resources to deploy up to 254 virtual machines on a single server. With two 100 Gb Ethernet ports, the adapter delivers 4x the bandwidth of 25 Gb adapters to support the network and storage needs of more virtual machines.

To achieve full virtualization of both the server and network infrastructure, the adapter provides support for overlay networks allowing virtual machines to connect to isolated virtual networks that share the Ethernet physical infrastructure.

## Frequently Asked Questions

- Q:** What is the Oracle Dual Port 100 Gb Ethernet Adapter?
- A:** Oracle Dual Port 100 Gb Ethernet Adapter enables high performance and flexibility for deploying network infrastructure in the next-generation clouds to Oracle servers and storage systems. With unique capabilities, to support 254 machines, Oracle Dual Port 100 Gb Ethernet Adapter enables you to effectively augment your server and network infrastructure.
- Q:** What server systems support the Oracle Dual Port 100 Gb Ethernet Adapter?
- A:** Currently, Oracle SPARC T8-1, T8-2, T8-4, and M8-8 server support the 100 GbE card. Refer to the [Product Notes](#) document for list of servers that support this adapter card which is updated as new information becomes available. Also, [Oracle Server Technologies](#) site with the Technical Details pages for [SPARC](#) and [x86](#) servers include Supported I/O Cards documents for the various server models.
- Q:** What operating systems are required by the Oracle Dual Port 100 Gb Ethernet Adapter?
- A:** Currently, Oracle Solaris 11.4 SRU33 or later is required. SPARC T8-1, T8-2, T8-4, and M8-8 server support the 100 GbE card. Refer to the [Product Notes](#) document for the required operating systems which is updated as new information becomes available.
- Q:** Does the Oracle Dual Port 100 Gb Ethernet Adapter support lower speeds (i.e. 25 Gb)?
- A:** Yes, the 100 GbE card supports 100 Gbps, 40 Gbps, 25 Gbps and 10 Gbps switch port connections. Refer to the Product Notes and its [Ethernet Transceivers and Cables Supported](#) section for more information.
- Q:** What types of cabling are supported with the adapter?
- A:** The adapter supports cables and transceivers that plug into the QSFP28 ports of the adapter. These include 3 meters and 5 meters Direct Attach Copper (DAC) cables for shorter lengths as well a QSFP SR transceives and fiber cables for up to 100 meter in length. Refer to Refer to the Product Notes and its [Ethernet Transceivers and Cables Supported](#) section for more information.
- Q:** Where can I find the product manuals for the 100 GbE ethernet adapter?
- A:** Go to Oracle Documentation [100 Gb Ethernet Adapter library page](#) for Product Notes, User's guide, and other documentation.

---

## Connect with us

Call **+1.800.ORACLE1** or visit **oracle.com**. Outside North America, find your local office at: **oracle.com/contact**.

 [blogs.oracle.com](https://blogs.oracle.com)

 [facebook.com/oracle](https://facebook.com/oracle)

 [twitter.com/oracle](https://twitter.com/oracle)

---

Copyright © 2021, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group. 0120

Disclaimer: If you are unsure whether your data sheet needs a disclaimer, read the revenue recognition policy. If you have further questions about your content and the disclaimer requirements, e-mail [REVREC\\_US@oracle.com](mailto:REVREC_US@oracle.com).