

# Data Sheet

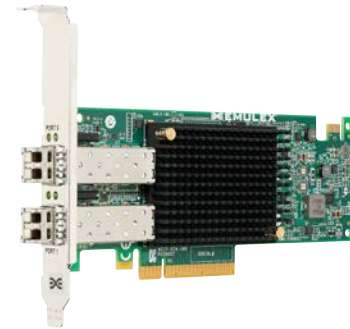
## FUJITSU Network Adapter Emulex OCe14102 Server

Dual-port with 10GbE Network Adapter

### Network Adapter Emulex OCe14102

The Fujitsu Network Adapter "Emulex OCe14102" is from the fourth generation of the Emulex OneConnect® product line OCe14000. The OCe14000 family of Ethernet network adapters provides high performance 10Gb Ethernet (10GbE) connectivity delivering multiple benefits for the enterprise cloud, including increasing data center IT agility and scalability through the deployment of a secure multi-tenant cloud. This optimizes server hardware utilization by scaling high density virtualization as well as delivering user-controlled bandwidth partitioning across workloads and management services. The Network Adapter OCe14102 is not a Converged Network Adapter (CNA); the adapter is only a NIC and does not have storage off-load functions (iSCSI and FCoE).

The OCe14000 family of 10Gb Ethernet network adapters is designed for the high bandwidth and scalability demands of enterprise applications, more scalable virtualization with support for RDMA traffic over Converged Ethernet (RoCE) fabric, enhanced Single-Root I/O Virtualization (SR-IOV) and NIC port partitioning, as well as next-generation overlay network technologies that address the requirements virtual machine (VM) mobility and massive scaling of Layer 2 subnets inside private or hybrid cloud infrastructures.



Main Features	Benefits
<ul style="list-style-type: none"> <li>■ Superior network scalability - 10GbE bandwidth on common software platform</li> <li>■ RoCE Support</li> </ul>	<ul style="list-style-type: none"> <li>■ Maximizes server hardware ROI with high virtual machine density</li> </ul>
<ul style="list-style-type: none"> <li>■ Powerful Overlay Networking offloads (NVGRE and VXLAN)</li> </ul>	<ul style="list-style-type: none"> <li>■ Enables server to server data movement directly between application memory without any CPU involvement providing high throughput on a standard Ethernet</li> </ul>
<ul style="list-style-type: none"> <li>■ Stateless TCP/IP offloads</li> </ul>	<ul style="list-style-type: none"> <li>■ Address the requirements of virtual machine (VM) mobility and massive scaling of Layer 2 subnets inside private or hybrid cloud infrastructures</li> </ul>
<ul style="list-style-type: none"> <li>■ Common technology with Dynamic LoM</li> </ul>	<ul style="list-style-type: none"> <li>■ Provides the bandwidth needed for slot constrained server platforms</li> <li>■ Same driver and management support as for LOM on new dual socket M1 server generation</li> </ul>

# Technical details

## Technical details

<b>Controller type</b>	Ethernet Ctrl.
<b>Controller Silicon</b>	Emulex Engine XE100
<b>Controller vendor</b>	Emulex
<b>Number of ports</b>	2
<b>Data transfer rate up to</b>	10 Gbit/s
<b>Bus interface</b>	PCIe 3.0 x8
<b>Bus transfer rate</b>	8GT/s
<b>HW Virtualization</b>	SR-IOV support (up to 64 virtual functions per port for NIC) Overlay Network Virtualization (NVGRE & VXLAN) Universal Multi-Channel for Port Partitioning
<b>Interrupt Levels</b>	MSI-X
<b>WoL</b>	No
<b>LEDs</b>	2 LED per port Green: Blink = Activity Off = No activity Amber: On = Link up Off = Link down
<b>Teaming</b>	all teaming functions provided by the OS
<b>Remote boot support</b>	PXE 2.0
<b>Additional features</b>	RoCE (RDMA over Converged Ethernet)
<b>Offloading</b>	TCP/IP stateless offloads Add Overlay Networks
<b>Standards</b>	<p><b>Ethernet:</b></p> <ul style="list-style-type: none"> <li>- IEEE 802.3-2008 10Gb/s Ethernet ports</li> <li>- IEEE 802.1Q virtual LANs (VLAN)</li> <li>- IEEE 802.3x Flow control with Pause frames</li> <li>- IEEE 802.3ad Link Aggregation / LACP</li> <li>- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)</li> <li>- IEEE 802.1Qbg Edge Virtual Bridging</li> </ul> <p><b>DCE/CEE Support:</b></p> <ul style="list-style-type: none"> <li>- IEEE 802.1Qaz Enhanced Transmission Selection (ETS) Data Center Bridging Capability Exchange (DCBX)</li> <li>- IEEE 802.1Qbb Priority-based Flow Control (PFC)</li> </ul>

## Supported Interface Modules / Cables

Order code	Application	Type / mode	Connector / cable Length
MC-OJCE71	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
MCXOJCE71	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
S26361-F5250-E110	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
S26361-F5250-L110	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
S26361-F3989-E600	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 2m or 5m
S26361-F3989-L102	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 2m
S26361-F3989-L105	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 5m
S26361-F3989-L110	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 10m
S26361-F3873-E500	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 3m or 5m
S26361-F3873-L501	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 1m
S26361-F3873-L503	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 3m
S26361-F3873-L505	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 5m
Interface Module notes	Only Fujitsu certified modules are supported Order codes starting with "S26361-F3873" are Brocade branded cables, required for connections to Brocade switches Order codes starting with "S26361-F4571" are Cisco branded cables, required for connections to Cisco switches		

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**Supported Interface Modules / Cables**

<b>Order code</b>	<b>Application</b>	<b>Type / mode</b>	<b>Connector / cable Length</b>
Description optional cable	10Gbit/s transceiver module for MMF (S26361-F5250-E110 / -L110 and MC-OJCE71 / MCXOJCE71):		
	- OM1 (Multi Mode Fiber 62.5/125µm, 200 MHz*km) up to 33m		
	- OM2 (Multi Mode Fiber 50.0/125µm, 500 MHz*km) up to 82m		
	- OM3 (Multi Mode Fiber 50.0/125µm, 2000 MHz*km) up to 300m		
	- OM4 (Multi Mode Fiber 50.0/125µm, 4700 MHz*km) up to 400m		

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**Environment**

<b>Temperature (operating)</b>	0 - 55 °C
<b>Storage temperature</b>	-40 - 70 °C

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**Compliance**

<b>Compliance notes</b>	According to the corresponding system
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

# More information

## Fujitsu platform solutions

In addition to Fujitsu with Network Adapter Emulex OCe14102, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

### Computing Products

[www.fujitsu.com/global/products/computing/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu Network Adapter Emulex OCe14102, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com/Primergy>

## Fujitsu green policy innovation

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