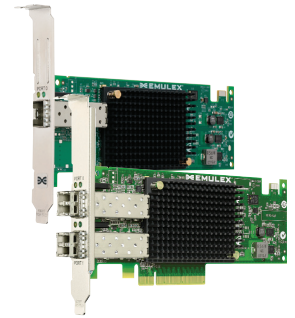CONNECT

OneConnect® OCe11101-EX/EM and OCe11102-EX/EM

High performance 10Gb Ethernet Network Adapter

Uncompromising Low Packet Performance for Cloud and Multi-tenant Computing Environments

Optimized Network Connectivity

The OCe11100-EX and -EM 10GbE adapters deliver accelerated performance which is critical in highly transactional and Cloud/multi-tenant environments. Protocol offload for stateless TCP/IP and TCP Chimney provides maximum bandwidth with minimum use of CPU resources.

Greener data centers

The Emulex family of OCe11100-EX and -EM network adapters delivers industry-leading performance and scalability per watt, reducing requirements for power and cooling.

Simplified Management

OneCommand Manager application

The OneCommand Manager application enables centralized management of Emulex OneConnect network adapters, UCNAs and HBAs throughout the data center from a single management console. The OneCommand Manager application provides a graphical user interface (GUI) and a scriptable command line user interface (CLI), which drive administration efficiency and business agility.

Network boot

Support for Preboot eXecution Environment (PXE) makes these adapters an ideal solution for diskless deployments.

Key Features

Superior performance

- TCP/IP stateless offloads
- TCP Chimney Offload

Energy-efficient design

- Industry-leading performance per watt
- Complements data center "green" initiatives

Easy to deploy and manage with OneCommand® Manager application

- One management console for network and storage
- Integrated management of Emulex Universal Converged Network Adapters (UCNAs) and Host Bus Adapters (HBAs)
- Over 12 million ports administered with Emulex management software

Key Benefits

Optimized for Cloud/Multi-tenant environments

- Maximizes I/O bandwidth with high-performance 10GbE ports
- Same firmware, drivers and management as OneConnect 10GbE blade and LAN on motherboard (LOM) solutions

Enterprise-ready

- Backed by field-proven Emulex reliability and support

OneConnect®

OneCommand®

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High performance 10Gb Ethernet Network Adapter

Standards

· PCI Express base spec 2.0,
  PCI Bus Power Management Interface, rev. 1.2,
  Advanced Error Reporting (AER)
· IEEE 802.3ae (10Gb/s Ethernet)
· IEEE 802.1q (VLAN)
· IEEE 802.1p (QoS/CoS)
· IEEE 802.3ad (Link Aggregation)
· IEEE 802.3x (Flow Control)
· PHP hot plug-hot swap

Architecture

· 10Gb/s Ethernet link speed per port
· PCIe Express 2.0 (single port x4, dual port x8,
  5GT/s), MSI-X support
· Integrated data buffer and code space memory

Ethernet Features

· IPv4/IPv6 TCP, UDP checksum offload;
  Large Send Offload (LSO); Receive Side Scaling
  (RSS); TCP Segmentation Offload (TSO);
  IPv4 TCP Chimney Offload
· VLAN insertion and extraction
· Jumbo frames up to 9000 Bytes
· Preboot eXecution Environment (PXE) 2.0
  network boot support
· Interrupt coalescing
· Load balancing and failover support
  including adapter fault tolerance (AFT), switch
  fault tolerance (SFT), adaptive load balancing
  (ALB), teaming support

Comprehensive OS Support

· Red Hat Enterprise Linux Server
· Novell SUSE® Linux Enterprise Server
· CentOS

Hardware Environments

· x86, x64 and PPC processor families

Interconnect

· Optical
  - Optics: 10GBASE-SR short wave lasers
    with LC type connector
· Copper Direct Attach
  - SFP+ Direct Attached Twin-Ax Copper interface
  - Standards compliant passive copper cables
    up to 5m and active copper cables up to 10m

Physical Dimensions

· Short, low-profile form factor card
· 167.64mm x 68.91mm (6.60" x 2.71")
· Standard height bracket (low profile brackets ship
  with adapter)

Environmental Requirements

· Operating temperature: 0° to 55° C
  (32° to 131° F)
· Storage temperature: -40° to 70° C
  (-40° to 158° F)
· Relative humidity: 5% to 95% non-condensing

Agency Approvals

· Class 1 Laser Product per DHHS 21CFR (J)
  and EN60825-1
· UL recognized to UL 60950-1 2nd edition
· CUR recognized to CSA22.2, No. 60950-1-07
· Bauart-certified to EN60950-1 2nd edition
· FCC Rules, Part 15, Class A
· ICES-003, Class A
· EMC Directive 2004/108/EEC (CE Mark)
  - EN55022:2010, Class A
  - EN55024:2010
· Australian EMC Framework (C-Tick Mark)
  - AS/NZS CISPR22, Class A
· VCCI (Japan), Class A
· KCC (Korea), Class A
· BSMI (Taiwan), Class A
· EU RoHS Compliant (Directive 2002/95/EC)
· China RoHS Compliant

Ordering Information

· OCe11101-EM
  - Single-port, 10GBASE-SR (short reach optical)

· OCe11101-EX
  - Single-port, 10GBASE-CR (direct attach copper)

· OCe11102-EM
  - Dual-port, 10GBASE-SR (short reach optical)

· OCe11102-EX
  - Dual-port, 10GBASE-CR (direct attach copper)

Some of these products may not be available in the U.S.
Contact your supplier for more information.

EMULEX®