



## EMC & Emulex—Better Together

Emulex is the leading supplier of adapters for EMC customers. These proven adapters have been tested, qualified and approved for sales and support with leading EMC solutions and ensure interoperability with applications such as VMware, EMC Control Center and EMC PowerPath. The adapters are listed on the EMC Support Matrix (ESM) and are part of the EMC Select portfolio of complementary third-party products. The Emulex partnership enables EMC to provide customers with complete, end-to-end storage solutions.

The EMC-branded Emulex OneConnect™ Universal Converged Network Adapter (UCNA) product family has a single-chip, high-performance 10Gb/s Ethernet (10GbE) architecture that provides server connectivity for network and storage traffic with multi-function server adapters and are qualified by EMC for use in storage area networks (SAN) and network-attached storage (NAS) across the new EMC® VNX™ family (including the entry-level VNXe™) and existing Connectrix®, EMC® CLARiiON®, EMC Celerra® and EMC Symmetrix® networked storage systems. OneConnect UCNAs support FCoE, iSCSI and TCP/IP while leveraging mature management tools and processes. By consolidating traffic, the OneConnect UCNA simplifies network management and significantly reduces total cost of ownership (TCO).

### Leading FCoE adapter

- Market-leading performance
- Common proven software stack with Emulex LightPulse® Host Bus Adapters (HBAs)
- Low-temperature design provides greater reliability

### Best iSCSI adapter on the market

- Full iSCSI offload outperforms software initiators
- Maximizes consolidation with high-bandwidth 10GbE support

### Reduce capital expense (CapEx) and operational expense (OpEx)

- Common infrastructure for networking and storage
- Save 30% on adapters and switches
- Save 80% on cabling
- Save 40% on power and cooling

### Best Ethernet network adapter available

- Market leader: Over 30% total 10GbE ports shipped today\*
- Stateless TCP/IP protocol offloads
- TCP Offload Engine (TOE) and Windows TCP Chimney enable optimum server performance
- Support for Preboot eXecutive Environment (PXE) ideal for diskless deployments

### Unified management for networking and storage with the Emulex OneCommand™ Manager application

- One management console for HBAs and UCNAs
- Manage Fibre Channel, FCoE, iSCSI storage and networking with single view
- Centralized discovery, monitoring, reporting and management of local and remote adapters

### Single framework for all 10GbE connectivity creates simplified version management and testing

- Common network interface card (NIC) drivers
- Common firmware and boot code
- Consistent NIC teaming
- Consistent TCP offload support

Single framework simplifies version management and testing, which lowers data center OpEx. Competing products require multiple drivers, firmware and boot code. With a unique firmware-based architecture, Emulex adapters can be remotely installed and upgraded without downtime.

### Scalability and performance for virtualization

- Industry-leading 10GbE network performance
- Protocol offloads for TCP/IP, TOE, iSCSI and FCoE
- Increased server efficiency provides 20% higher virtualization ratios
- Highest virtual port (vPort) count per virtual machine (VM)
- Emulex adapters deliver powerful performance, advanced data integrity and superior quality.

Visit  
[www.emulex-emc.com](http://www.emulex-emc.com)  
today!



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## Why Emulex?

### Emulex adapters “Just Work!”

- Ten generations—over 10 years of shipments and over 10 million ports shipped—field-proven with all major server platforms, switches, storage and software
- Run cooler with greater reliability

### Emulex adapters are ideal for any size organization

- One adapter family supports 10GbE networking with optimized iSCSI and FCoE storage connectivity; organizations can match OneConnect adapters to current requirements and future-proof their investment with the option to add protocol enablements

- Unified management with the OneCommand Manager application simplifies the use of Emulex HBAs and UCNAs across the entire data center, regardless of size or complexity
- Multiple protocol accelerators/offload engines allow OneConnect adapters to deliver maximum performance, regardless of the mix of protocol traffic
- Most CPU-efficient adapter for maximum return on investment (ROI)
- Excellent HBA performance: Best 8Gb/s dual-channel performance with advanced features and diagnostics

### Emulex does virtualization better

- Supports more VMs per server than competing products
- N\_Port ID Virtualization (NPIV), co-developed by Emulex, provides each VM with a unique vPort for a secure path to storage

Visit [www.emulex-emc.com](http://www.emulex-emc.com) today!

Part Number	Adapter Type	System Bus	Speed	# of Ports	Windows	Linux	VMware	Solaris	Qualifications
OCe11102-FM-E (Optical)	FCoE		10Gb/s Ethernet	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
OCe11102-FX-E (Copper)	FCoE		10Gb/s Ethernet	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
OCe11102-IM-E (Optical)	iSCSI		10Gb/s Ethernet	2	•	•	•		CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
OCe11102-IX-E (Copper)	iSCSI		10Gb/s Ethernet	2	•	•	•		CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
OCe10102-FM-E (Optical)	FCoE CNA	PCI Express	10Gb/s Ethernet	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
OCe10102-FX-E (Copper)	FCoE CNA	PCI Express	10Gb/s Ethernet	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
OCe10102-IM-E (Optical)	iSCSI	PCI Express	10Gb/s Ethernet	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
OCe10102-IX-E (Copper)	iSCSI	PCI Express	10Gb/s Ethernet	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LPe12000-E	HBA	PCI Express	8Gb/s	1	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LPe12002-E	HBA	PCI Express	8Gb/s	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LPe1250-E	HBA	PCI Express	8Gb/s	1	•	•	•		CLARiiON CX, AX & FC Series, Celerra NS20FC, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LPe11000-E	HBA	PCI Express	4Gb/s	1	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LPe11002-E	HBA	PCI Express	4Gb/s	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LPe11004-E	HBA	PCI Express	4Gb/s	4	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LPe1150-E	HBA	PCI Express	4Gb/s	1	•	•	•		CLARiiON CX, FC, & AX Series, Celerra NS20FC, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LP11000-E	HBA	PCI-X	4Gb/s	1	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LP11002-E	HBA	PCI-X	4Gb/s	2	•	•	•	•	CLARiiON CX & FC Series, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series
LP1150-E	HBA	PCI-X	4Gb/s	1	•	•	•		CLARiiON CX, FC, & AX Series, Celerra NS20FC, Symmetrix DMX & 8000 Series, VNxe 3000 Family, VNX 5000/7000, VMAX Series

These products may not be available in the U.S. Please contact your supplier for more information.

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