



## Emulex 10GbE NIC vs. Competitors Cross Reference Guide

Product Features	Emulex	Intel	Qlogic	Mellanox	Chelsio	Target Applications
<b>Part number</b>	OCe11102-NX	E10G42BTDA	QLE3242-CU-CK	MCX312A-XCBT	T420-CR	<ul style="list-style-type: none"> <li>Superior virtualization performance leveraging Emulex's vEngine™ protocol offload technology, advanced virtualization capabilities such as SR-IOV and switch-agnostic NIC partitioning with Universal Multi-Channel (UMC)</li> <li>Bandwidth needed for today's multi-core and multi-CPU server platforms</li> <li>Broad OS support: Windows Server, VMware ESX, Red Hat Enterprise Linux (RHEL), Novell SUSE® Linux Enterprise Server (SLES), CentOS, Ubuntu, Oracle Solaris, FreeBSD</li> <li>Flexible architecture enables protocol (FCoE and iSCSI) upgrade with hardware off-load, ideal for converged networks (NAS and SAN)</li> </ul>
<b>Brand name</b>	OneConnect	X520-DA2	QLE3242	ConnectX-3	T4	
<b>Adapter form factor</b>	Low Profile	Low Profile	Low Profile	Low Profile	Low Profile	
<b>Number of ports</b>	2	2	2	2	2	
<b>Connector type</b>	Direct Attach Copper (DAC)					
Product Features	Emulex	Intel	Qlogic	Mellanox	Chelsio	Emulex 10GbE vs. Competitors
<b>Part number</b>	OCe11102-NM	E10G42BFSR	QLE3242-SR-CK	MFM1T02A-SR	SM10G-SR	<b>Emulex OCe11102</b>
<b>Brand name</b>	OneConnect	X520-SR2	QLE3242	ConnectX-3	T4	<b>Intel X520</b>
<b>Adapter form factor</b>	Low Profile	Low Profile	Low Profile	Low Profile	Low Profile	<b>QLogic QLE8200</b>
<b>Number of ports</b>	2	2	2	2	2	<b>Mellanox ConnectX2</b>
<b>Connector type</b>	Optical (SR) Short Range					<b>Chelsio T4</b>
Product Features	Emulex	Intel	Qlogic	Mellanox	Chelsio	#1 market leader in ports shipped (>10 million)
<b>Part number</b>	OCe11102-NT	E10G42BT	N/A	N/A	T420-BT	9/10 Tier 1 server and storage OEM adoption
<b>Brand name</b>	OneConnect	X520-T2			T4	Multi-protocol offload (TCP/IP, iSCSI and FCoE)
<b>Adapter form factor</b>	Low Profile	Low Profile			Low Profile	Leader in throughput performance
<b>Number of ports</b>	2	2			2	Integrated management for VMware vCenter plug-in
<b>Connector type</b>	10GBase-T Cat 6/6a				10GBase-T Cat 6/6a	Optimized for server virtualization w/NIC partitioning (UMC)
						Leader in CPU efficiency and power usage
						Centralized management via single console (OneCommand® Manager)
						Greatest reliability with low operating temperature
						Pay-As You-Go (10G NIC today, upgrade to iSCSI or FCOE when ready)

## Connectors and Cables

### Direct Attach Copper (DAC)



Direct attach copper (DAC) cable has integrated small form-factor pluggable (SFP+) connectors at each end. At one end, the cable's SFP is inserted into the 10GbE NIC's SFP "cage" and at the other end, the SFP is inserted into the connection port of a 10GbE switch. DAC cables can be either passive or 'active' which means they have a re-timer circuit. Maximum cable length for active DAC connections is 10 meters.

### Optical



Adapters using enhanced small form factor pluggable (SFP+) short range (SR) transceivers are connected to the network using fibre optic cables. The maximum cable length for SFP+ (SR) is 300 meters over multimode optical fiber.

### 10GBase-T Cat 6/6a



10GBASE-T adapters can be used with Cat6 or Cat6a twisted pair cables with RJ45 connectors. Maximum cable lengths are 55 meters for Cat6 and 100 meters for Cat6a.



## 10GbE Switch Options\* for Emulex 10GbE NIC Adapters

Switch Vendor	Switch Model	Emulex OCe11102-NX	Emulex OCe11102-NM	Emulex OCe11102-NT	Emulex OCe11102-IT	Emulex OCe10102-NX	Emulex OCe10102-NM
Arista	7050	•	•	•	•	•	•
	7100	•	•	•	•	•	•
	7500	•	•	•	•	•	•
Brocade	Brocade 8000	•	•	•	•	•	•
Cisco	Catalyst 4900	•	•	•	•	•	•
	Nexus 2232	•	•	•	•	•	•
	Nexus 3064	•	•	•	•	•	•
	Nexus 4001i Switch Module	•	•	•	•	•	•
	Nexus 5000 Series	•	•	•	•	•	•
	Nexus 7000 Series	•	•	•	•	•	•
Extreme Networks	Summit x650 Series	•	•	•	•	•	•
	Summit x670 Series	•	•	•	•	•	•
	Black Diamond X Series	•	•	•	•	•	•
	Black Diamond 8800 X Series	•	•	•	•	•	•
Force10	C-Series	•	•	•	•	•	•
	S-Series	•	•	•	•	•	•
Fujitsu	XG2000 Series	•	•	•	•	•	•
	XG2600 Series	•	•	•	•	•	•
	XG0224	•	•	•	•	•	•
	XG0448	•	•	•	•	•	•
HP	E6400cl-6XG	•	•	•	•	•	•
	E6410cl-6XG	•	•	•	•	•	•
	E6600-24XG 24 Port Switch	•	•	•	•	•	•
	A5820-14XG-SFP+ 18 Port Switch	•	•	•	•	•	•
	A5820-24XG-SFP+ 28 Port Switch	•	•	•	•	•	•
IBM	RackSwitch G8000	•	•	•	•	•	•
	RackSwitch G8052	•	•	•	•	•	•
	RackSwitch G8124	•	•	•	•	•	•
	RackSwitch G8264	•	•	•	•	•	•
Juniper	EX Series	•	•	•	•	•	•
	QFX3500	•	•	•	•	•	•
Voltaire	Vantage 8500	•	•	•	•	•	•
Gnodal	GS4008	•	•	•	•	•	•
	GS7200	•	•	•	•	•	•

\* This chart does not include all 10GbE Ethernet switch manufactures or models.

## Emulex Contacts North America

**Jeff Johnson** Director of Sales  
(714) 885-3481 · jeff.johnson@emulex.com

**Chasity Montgomery**  
Channel Account Manager, CDW/Insight  
(312) 320-3770 · chasity.montgomery@emulex.com

**Julia Wang**  
Channel Account Manager, West Coast, Zones  
(714) 454-4146 · julia.wang@emulex.com

**Courtney Grugeon**  
Channel Account Manager, East Coast  
(814) 571-2378 · courtney.grugeon@emulex.com

## Inside Sales North America

**Ben Milbourne** Central Region  
(714) 227-8794 · ben.milbourne@emulex.com

**Jackie Petrovic** East Region  
(714) 885-3451 · jackie.petrovic@emulex.com

**Carrie Schaefer** West Region  
(714) 885-3455 · carrie.schaefer@emulex.com

## Cisco WW Field Sales

**Peichen Chang**  
(916) 787-2507 · peichen.chang@emulex.com

## Emulex Contacts Europe

**Adrian Aubrey**  
Business Development Manager, 10GbE  
+44 (0) 118 977 8525 (mobile)  
+44 (0) 7967 5618333 (office)  
adrian.aubrey@emulex.com

**Craig Skelton** (Eng)  
Sales Director, Northern Europe  
+44 (0) 7780 958 201 · craig.skelton@emulex.com

**Pascal Couzinet** (Fr)  
Sales Manager, Southern Europe  
+33 (0) 680 043 877 · pascal.couzinet@emulex.com

**Perry Eekhout** (De)  
Sales Manager-Central Europe  
+49 (0) 171 3235433 · perry.eekhout@emulex.com

**Lydie Doumi** (Fr)  
Channel Account Manager, Southern Europe  
+33 (0) 675 015 692 · lydie.doumi@emulex.com

**Thomas Prucker** (De)  
Channel Account Manager, Central Europe  
+49 (0) 172 9079 390 · thomas.prucker@emulex.com

## Inside Sales Europe

**Alex Keeley** (Languages: Eng, Fr, Ar)  
alex.keeley@emulex.com

**Tanny Lee** (Languages: Eng, De)  
tanny.lee@emulex.com

**Inside Sales Free Phone Numbers**  
UK: 0808 178 0570  
Fr: 0800 901 157  
De: 0800 181 7769