

Intel XL710QDA2 network card Internal Fiber 40000 Mbit/s

Brand : Intel

Product code: XL710QDA2

Product name : XL710QDA2

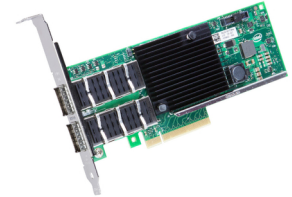
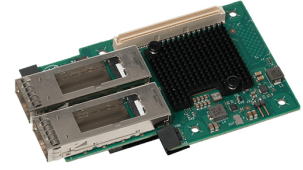
Ethernet Converged Network Adapter XL710-QDA2

Intel XL710QDA2 network card Internal Fiber 40000 Mbit/s:

Flexible Port Partitioning (FPP) technology utilizes industry standard PCI SIG SR-IOV to efficiently divide your physical Ethernet device into multiple virtual devices, providing Quality of Service by ensuring each process is assigned to a Virtual Function and is provided a fair share of the bandwidth.

Virtual Machine Device Queues (VMDq) is a technology designed to offload some of the switching done in the VMM (Virtual Machine Monitor) to networking hardware specifically designed for this function. VMDq drastically reduces overhead associated with I/O switching in the VMM which greatly improves throughput and overall system performance

Single-Root I/O Virtualization (SR-IOV) involves natively (directly) sharing a single I/O resource between multiple virtual machines. SR-IOV provides a mechanism by which a Single Root Function (for example a single Ethernet Port) can appear to be multiple separate physical devices.



Ports & interfaces

Connectivity technology *	Wired
Host interface *	PCI Express
Interface *	Fiber
Ethernet LAN (RJ-45) ports	2
Fiber ports quantity	2
Fiber optic connector	QSFP+
PCI version	3.0
PCI Card form factor	Half-height (low-profile)

Network

Maximum data transfer rate *	40000 Mbit/s
Networking standards *	IEEE 802.1p, IEEE 802.1Q, IEEE 802.3, IEEE 802.3ad
Ethernet LAN data rates	10000,40000 Mbit/s
Supported network protocols	TCP, UDP, IP
VLAN tagging	✓
Maximum operating distance	10 m
LAN controller	Intel® XL710

Design

Component for *	Server
Product colour	Black, Green
Internal *	✓
LED indicators	✓
Certification	FCC B, UL, CE, VCCI, BSMI, CTICK, KCC

Power

Power consumption (typical)	4.9 W
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System requirements

Compatible operating systems <https://www.intel.com/content/www/us/en/support/articles/000025890/network-and-i-o/ethernet-products.html>
Linux operating systems supported RedHat EL Linux 6.0
Server operating systems supported Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2

Operational conditions

Operating temperature (T-T)	0 - 55 °C
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Other features

Intel® Virtualization Technology (Intel® VT)	VT-c
Intel Trusted Execution Technology	✗
Embedded options available	✗
Intel Virtual Machine Device Queues (VMDq)	✓
PCI-SIG® SR-IOV Capable	✓
On-chip QoS and Traffic Management	✓
Intel Flexible Port Partitioning	✓
Storage-over-ethernet	✓
Speed & slot width	8.0 GT/s, x8 Lane
Message signal interrupt	✗
Low halogen options available	✗
Intelligent Offloads	✓
iWARP/RDMA	✗
Fiber Channel over Ethernet	✗
Intel Ethernet Power Management	✗
Intel Data Direct I/O Technology	✓
Intel Virtualization Technology for Connectivity (VT-c)	✓
Interface type	PCIe v3.0 (8.0 GT/s)
Storage Over Ethernet	iSCSI, NFS
Conflict-Free	✓
Born on date	Q4'14
Launch date	Q4'14
Network interface card cable medium	Copper
Network interface card type	Server
Product brief URL	https://www.intel.com/content/www/us/en/ethernet-products/converged-network-adapters/ethernet-xl710-brief.html
Product name	Intel Ethernet Converged Network Adapter XL710-QDA2
Product type	Network Interface Card
Status	Launched
Number of QPI links	Dual
Last change	64826830
Processor family	700 Network Adapters (up to 40GbE)-700 Network Adapters (up to 40GbE)
Ethernet adapter ARK ID	83967
Export Control Classification Number (ECCN)	5A991
Commodity Classification Automated Tracking System (CATS)	NA
Controller type	Intel® Ethernet Controller XL710
Cabling type	QSFP+ Direct Attach Cabling up to 10m
Bracket height	Low-Profile (LP) / Full-Height (FH)
Product family	Intel 10 Gigabit server adapter
Product series	700 Series Network Adapters (up to 40GbE)
Product codename	Fortville

Operational conditions

Storage temperature (T-T)	-40 - 70 °C
Storage relative humidity (H-H)	35 - 90%

Sustainability

Sustainability certificates	RoHS
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Weight & dimensions

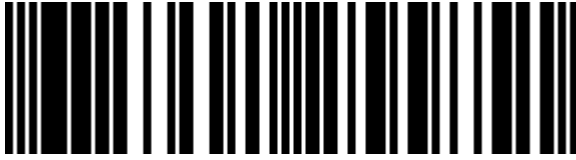
Width	68.6 mm
Depth	152.4 mm

Logistics data

Harmonized System (HS) code	85176990
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Other features

Cable type	QSFP+ Direct Attach Cabling up to 10m
Market segment	Server
Target market	Artificial Intelligence, High Performance Computing
Flow control support	✓
Management protocols	SNMP, RMON
Number of VLANs	4096



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