

Intel X710T4 network card Internal Ethernet 10000 Mbit/s

Brand : Intel

Product code: X710T4

Product name : X710T4

Ethernet Converged Network Adapter X710-T4

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Intel® Data Direct I/O Technology is a platform technology that improves I/O data processing efficiency for data delivery and data consumption from I/O devices. With Intel DDIO, Intel® Server Adapters and controllers talk directly to the processor cache without a detour via system memory, reducing latency, increasing system I/O bandwidth, and reducing power consumption.

Intel® Ethernet Power Management Technology provides solutions to common power management approaches by reducing idle power, reducing capacity and power as a function of demand, operating at maximum energy efficiency whenever possible, and enabling functionality only when needed.

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 *	Ethernet
Ethernet LAN (RJ-45) ports	4
PCI version	3.0
PCI Card form factor	Half-height (low-profile)

Network

Maximum data transfer rate *	10000 Mbit/s
Networking standards *	IEEE 802.1Q, IEEE 802.1as, IEEE 802.1p, IEEE 802.3, IEEE 802.3ad
Ethernet LAN	✓
Ethernet interface type	10 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet
Ethernet LAN data rates	100,1000,10000 Mbit/s
Cabling technology	10GBase-T
VLAN tagging	✓
iSCSI support	✓
Maximum operating distance	100 m
LAN controller	Intel® XL710

Design

Product colour	Black, Green
Internal *	✓

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	✓
Server operating systems supported	Windows Server 2008 R2, Windows Server 2008 R2 x64, Windows Server 2012 R2, Windows Server 2012 R2 x64

Operational conditions

Operating temperature (T-T)	0 - 55 °C
Storage temperature (T-T)	-40 - 70 °C
Storage relative humidity (H-H)	0 - 90%

Logistics data

Harmonized System (HS) code	85176990
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Other features

Target market	Artificial Intelligence, High Performance Computing
Number of VLANs	4096
Intel Virtual Machine Device Queues (VMDq)	✓
PCI-SIG® SR-IOV Capable	✓
On-chip QoS and Traffic Management	✓
Intel Flexible Port Partitioning	✓
Speed & slot width	8.0 GT/s, x8 Lane
Low halogen options available	✗
Intelligent Offloads	✓
IWARP/RDMA	✗
Intel Data Direct I/O Technology	✓
Intel Virtualization Technology for Connectivity (VT-c)	✓
Interface type	PCIe v3.0 (8.0GT/s)
Storage Over Ethernet	iSCSI, NFS
Launch date	Q4'16
Network interface card cable medium	Copper
Network interface card type	Server
Product brief URL	http://www.intel.com/content/www/us/en/ethernet-products/converged-network-adapters/ethernet-x710-t4-brief.html
Product type	Network Interface Card
Status	Launched
Last change	64826840
Processor family	700 Network Adapters (up to 40GbE)-700 Network Adapters (up to 40GbE)
Ethernet adapter ARK ID	93428
Export Control Classification Number (ECCN)	5A991
Commodity Classification Automated Tracking System (CCATS)	NA
Controller type	Intel® Ethernet Controller XL710
Cabling type	RJ45 Category 6 up to 55m; Category 6A up to 100m
Bracket height	Low-Profile (LP) / Full-Height (FH)
Product family	Intel 10 Gigabit server adapter
Product series	700 Series Network Adapters (up to 40GbE)

Other features

Data transfer rate	8 GT/s
Cable type	RJ45 Category 6 up to 55m; Category 6A up to 100m
Market segment	LAD



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