Intel X710DA2BLK network card

Artikel	380639
Herstellernummer	X710DA2BLK
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Intel

Flexible Port Partitioning
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)
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

PCI-SIG* SR-IOV Capable
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.

Intel® Ethernet Power Management
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.

Zusammenfassung

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Intel X710DA2BLK, Internal, Wired, PCI Express, Fiber, 10000 Mbit/s, Black, Green, Stainless steel

Intel X710DA2BLK. Internal. Connectivity technology: Wired, Host interface: PCI Express, Interface: Fiber. Maximum data transfer rate: 10000 Mbit/s. Product colour: Black, Green, Stainless steel

Merkmale

Logistics data

Harmonized System (HS) code	85176990

Packaging data

Quantity	1

System requirements

Compatible operating systems	https://www.intel.com/content/www/us/en/support/articles/000025890/network-and-i-o/ethernet-products.html

Weight & dimensions

Width	167 mm
Depth	69 mm

Operational conditions

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

Design

Product colour	Black, Green, Stainless steel
Internal	Y
LED indicators	Y
Certification	FCC A, UL, CE, VCCI, BSMI, CTICK, KCC

Network

Maximum data transfer rate	10000 Mbit/s
Ethernet LAN data rates	10,1000 Mbit/s
Fiber ethernet cabling technology	10GBASE-LR, 10GBASE-SR
Quality of Service (QoS) support	Y
Maximum operating distance	10 m
LAN controller	Intel® X710

Ports & interfaces

Connectivity technology	Wired
Host interface	PCI Express
Interface	Fiber
Ethernet LAN (RJ-45) ports	2
Fiber ports quantity	2
Fiber optic connector	SFP+
PCI version	3.0

Other features

Data transfer rate	8 GT/s
Cable type	SFP+ Direct Attached Twinaxial Cabling up to 10m
Market segment	Server
Target market	Artificial Intelligence, High Performance Computing
Intel Virtual Machine Device Queues (VMDq)	Y
PCI-SIG* SR-IOV Capable	Y
On-chip QoS and Traffic Management	Y
Intel Flexible Port Partitioning	Y
Storage-over-ethernet	Y
Speed & slot width	8.0 GT/s, x8 Lane
Low halogen options available	N
Intelligent Offloads	Y
iWARP/RDMA	N
Fiber Channel over Ethernet	N
Intel Ethernet Power	Y

Management	
Intel Data Direct I/O Technology	Y
Intel Virtualization Technology for Connectivity (VT-c)	Y
Interface type	PCIe v3.0 (8.0 GT/s)
Storage Over Ethernet	iSCSI, NFS
Conflict-Free	Y
Launch date	Q4'14
Network interface card cable medium	Copper
Network interface card type	Server
Product brief URL	http://www.intel.com/content/dam/www/public/us/en/documents/product-briefs/ethernet-x710-brief.pdf
Product type	Network Interface Card
Status	Launched
Last change	64826824
Processor family	700 Network Adapters (up to 40GbE)-700 Network Adapters (up to 40GbE)
Ethernet adapter ARK ID	83964
Export Control Classification Number (ECCN)	5A991
Commodity Classification Automated Tracking System (CCATS)	NA
Controller type	Intel® Ethernet Controller X710
Cabling type	SFP+ Direct Attached Twinaxial 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