

Intel XXV710DA1BLK network card Internal Fiber 25000 Mbit/s

Brand : Intel

Product code: XXV710DA1BLK

Product name : XXV710DA1BLK

Ethernet Network Adapter XXV710-DA1

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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.

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.

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.



Ports & interfaces		Other features	
Connectivity technology *	Wired	Market segment	Server
Host interface *	PCI Express	Target market	Artificial Intelligence, High Performance Computing
Interface *	Fiber	Number of VLANs	4096
Ethernet LAN (RJ-45) ports	1	Intel Virtual Machine Device Queues (VMDq)	✓
Fiber ports quantity	1	PCI-SIG® SR-IOV Capable	✓
Fiber optic connector	SFP28	On-chip QoS and Traffic Management	✓
PCI version	3.0	Intel Flexible Port Partitioning	✓
PCI Card form factor	Full-height (low-profile)	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 (8.0 GT/s)
		Storage Over Ethernet	iSCSI, NFS
		Launch date	Q1'17
		Network interface card cable medium	Copper
		Network interface card type	Server
		Product brief URL	http://www.intel.com/content/www/us/en/ethernet-products/network-adapters/ethernet-xxv710-brief.html
		Product type	Network Interface Card
		Status	Launched
		Last change	63903513
		Processor family	700 Network Adapters (up to 40GbE)-700 Network Adapters (up to 40GbE)
		Ethernet adapter ARK ID	95261
		Export Control Classification Number (ECCN)	5A991
		Commodity Classification Automated Tracking System (CATS)	NA
		Cabling type	SFP28 Direct Attach twinaxial cabling up to 5m / SFP28 SR and LR Optics also supported
		Bracket height	Low-Profile (LP) / Full-Height (FH)
		Product family	Intel® 25 Gigabit Server Adapters
		Product series	700 Series Network Adapters (up to 40GbE)
Network			
Maximum data transfer rate *	25000 Mbit/s		
Networking standards *	IEEE 802.1Q, IEEE 802.1as, IEEE 802.1p, IEEE 802.3, IEEE 802.3ad		
Ethernet interface type	10 Gigabit Ethernet, Gigabit Ethernet		
Ethernet LAN data rates	1000,10000,25000 Mbit/s		
VLAN tagging	✓		
iSCSI support	✓		
Maximum operating distance	5 m		
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%		

Sustainability

Sustainability certificates RoHS

Logistics data

Harmonized System (HS) code 85176990

Other features

Data transfer rate 8 GT/s

Cable type SFP28 Direct Attach twinaxial
cabling up to 5m / SFP28 SR and LR
Optics also supported



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