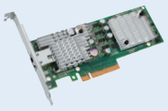
Reliable Performance ▪ Best Choice for Virtualization ▪ Unified Networking

Speed	10 GIGABIT FOR SERVERS AND WORKSTATIONS					
						
	Copper					
Brand Name	**Intel® Ethernet Converged Network Adapter X540-T2**	**Intel® Ethernet Converged Network Adapter X540-T1**	**Intel® Ethernet Converged Network Adapter X520-DA2**	**Intel® Ethernet Server Adapter 10 Gigabit AT2**	**NetEffect™ Ethernet Server Cluster Adapter CX4**	**NetEffect™ Ethernet Server Cluster Adapter DA**
Product Code	**X540T2**	**X540T1**	**E10G42BTDA**	**E10G41AT2**	**E10G81GT2CX4**	**E10G81G2P**
Intel® Ethernet Controller	Intel® X540	Intel® X540	Intel® 82599ES	Intel® 82598EB	NetEffect™ NE020	NetEffect™ NE020
Connector & Cable Medium	RJ-45 Copper	RJ-45 Copper	SFP+ Direct Attach Copper	RJ-45 Copper	CX4 Copper	SFP+ Direct Attach Copper
Cabling Type	Category-6 up to 55 m Category-6A up to 100 m	Category-6 up to 55 m Category-6A up to 100 m	SFP+ Direct Attached Twin Axial Cabling up to 10 m	Category-6 up to 55 m Category-6A up to 100 m	8 pair, 100 ohm Twin Axial Cabling up to 15 m	SFP+ Direct Attached Twin Axial Cabling up to 10 m
Slot Type, Maximum Bus Speed & Slot Width	PCI Express* 2.1 5.0 GT/s, x8 Lane	PCI Express* 2.1 5.0 GT/s, x8 Lane	PCI Express* 2.0 5.0 GT/s, x8 Lane	PCI Express* 2.0 2.5 GT/s, x8 Lane	PCI Express* 1.1 2.5 GT/s, x8 Lane	PCI Express* 1.1 2.5 GT/s, x8 Lane
Ports	Dual Port	Single Port	Dual Port	Single Port	Single Port	Single Port
Supported Slot Height(s)	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height
Intelligent Offloads	Yes	Yes	Yes	Yes	Yes	Yes
Intel® VT for Connectivity	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Virtual Machine Device Queues (VMDq), Hypervisor-based Port Partitioning	NA	NA
Storage over Ethernet	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, NFS	iSCSI, NFS
iWARP/RDMA	NA	NA	NA	NA	Yes	Yes

Speed	10 GIGABIT FOR SERVERS AND WORKSTATIONS			
				
	Fiber			
Brand Name	**Intel® Ethernet Converged Network Adapter X520-SR1**	**Intel® Ethernet Converged Network Adapter X520-SR2**	**Intel® Ethernet Converged Network Adapter X520-LR1**	**NetEffect™ Ethernet Server Cluster AdapterSFP+ SR**
Product Code	**E10G41BFSR**	**E10G42BFSR**	**E10G41BFLR**	**E10G81GF2SR**
Intel® Ethernet Controller	Intel® 82599ES	Intel® 82599ES	Intel® 82599ES	NetEffect™ NE020
Connector & Cable Medium	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic
Cabling Type	MMF 62.5/50 µm up to 300 m	MMF 62.5/50 µm up to 300 m	SMF up to 10 km	MMF 62.5/50 µm up to 300 m
Slot Type, Maximum Bus Speed & Slot Width	PCI Express* 2.0 5.0 GT/s, x8 Lane	PCI Express* 2.0 5.0 GT/s, x8 Lane	PCI Express* 2.0 5.0 GT/s, x8 Lane	PCI Express* 1.1 2.5 GT/s, x8 Lane
Ports	Single Port	Dual Port	Single Port	Single Port
Supported Slot Height(s)	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height
Intelligent Offloads	Yes	Yes	Yes	Yes
Intel® VT for Connectivity	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	NA
Storage over Ethernet	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, NFS
iWARP/RDMA	NA	NA	NA	Yes

*Other names and brands may be claimed as the property of others.

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For additional product information, please visit intel.com/go/ethernet