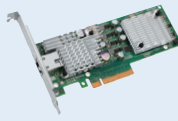


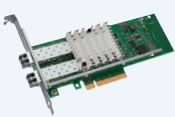
Reliable Performance   ■   Best Choice for Virtualization   ■   Unified Networking

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                               |                                                                                                                               |                                                                                                              |                                                  |                                                       |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|
| 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<br>Category-6A up to 100 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Category-6 up to 55 m<br>Category-6A up to 100 m                                                                              | SFP+ Direct Attached<br>Twin Axial Cabling up to 10 m                                                                         | Category-6 up to 55 m<br>Category-6A up to 100 m                                                             | 8 pair, 100 ohm<br>Twin Axial Cabling up to 15 m | SFP+ Direct Attached<br>Twin Axial Cabling up to 10 m |
| Slot Type, Maximum Bus Speed & Slot Width | PCI Express* 2.1<br>5.0 GT/s, x8 Lane                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PCI Express* 2.1<br>5.0 GT/s, x8 Lane                                                                                         | PCI Express* 2.0<br>5.0 GT/s, x8 Lane                                                                                         | PCI Express* 2.0<br>2.5 GT/s, x8 Lane                                                                        | PCI Express* 1.1<br>2.5 GT/s, x8 Lane            | PCI Express* 1.1<br>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                                                   |



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|                                           |                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |                                                                                                                               |                                                    |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 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 Adapter SFP+ 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<br>up to 300 m                                                                                                                                                                                                                                                                                                                  | MMF 62.5/50 µm<br>up to 300 m                                                                                                 | SMF up to 10 km                                                                                                               | MMF 62.5/50 µm<br>up to 300 m                      |
| Slot Type, Maximum Bus Speed & Slot Width | PCI Express* 2.0<br>5.0 GT/s, x8 Lane                                                                                                                                                                                                                                                                                                          | PCI Express* 2.0<br>5.0 GT/s, x8 Lane                                                                                         | PCI Express* 2.0<br>5.0 GT/s, x8 Lane                                                                                         | PCI Express* 1.1<br>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.