

# Intel Ethernet Converged Network Adapter X520-QDA1 - network adapter - PCIe 3.0 x8 - 40 Gigabit QSFP+ x 1



23-05-2024

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| SKU                   | X520QDA1                                                                                                  |
| Product Description:  | Intel Ethernet Converged Network Adapter X520-QDA1 - network adapter - PCIe 3.0 x8 - 40 Gigabit QSFP+ x 1 |
| Device Type:          | Network adapter                                                                                           |
| Form Factor:          | Plug-in card - low profile                                                                                |
| Interface (Bus) Type: | PCI Express 3.0 x8                                                                                        |
| Ports:                | 40 Gigabit QSFP+ x 1                                                                                      |
| Dimensions (WxDxH):   | 16.927 cm x 6.866 cm                                                                                      |
| Data Link Protocol:   | FCoE, 40 Gigabit LAN                                                                                      |



General

|                       |                            |
|-----------------------|----------------------------|
| Device Type:          | Network adapter            |
| Form Factor:          | Plug-in card - low profile |
| Interface (Bus) Type: | PCI Express 3.0 x8         |

Networking

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| Ports:                        | 40 Gigabit QSFP+ x 1                                    |
| Connectivity Technology:      | Wired                                                   |
| Data Link Protocol:           | Fibre Channel over Ethernet (FCoE), 40 Gigabit Ethernet |
| Data Transfer Rate:           | 40 Gbps                                                 |
| Network / Transport Protocol: | TCP/IP, UDP/IP, iSCSI                                   |
| Remote Management Protocol:   | SNMP, RMON                                              |
| Status Indicators:            | Port transmission speed, link/activity                  |

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Features: | Flow control, VLAN support, packet filtering, IPv6 support, Quality of Service (QoS), Jumbo Frames support, Virtual Machine Device Queues (VMDq), IPv4 support, PXE support, Large Send Offload (LSO), Large Receive Offload (LRO), Receive Side Scaling (RSS), Single Root I/O Virtualization (SR-IOV), Data Center Bridging (DCB), TCP Segmentation Offload (TSO), Direct Cache Access (DCA), Extended Message-Signaled Interrupts (MSI-X), Converged Enhanced Ethernet (CEE), iSCSI remote boot, Watch Dog Timer (WDT), Virtualization Technology for Connectivity (VT-c), Data Direct I/O Technology (DDIO) |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                       |
|----------------------|---------------------------------------|
| Compliant Standards: | IEEE 802.3, IEEE 802.3x, IEEE 802.1as |
|----------------------|---------------------------------------|

Compatibility Information

|               |                  |
|---------------|------------------|
| Designed For: | P/N: E40GQSFPPLR |
|---------------|------------------|

Environmental Parameters

|                            |       |
|----------------------------|-------|
| Min Operating Temperature: | 0 °C  |
| Max Operating Temperature: | 55 °C |

Dimensions & Weight

|         |           |
|---------|-----------|
| Depth:  | 16.927 cm |
| Height: | 6.866 cm  |

Software / System Requirements

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OS Required: | Microsoft Windows 7 64-bit Edition, Linux Kernel 2.6, Microsoft Windows Server 2008 R2 x64 Edition, SuSE Linux Enterprise Server 10 SP4, Windows 8 64-bit Edition, Red Hat Enterprise Linux 5.9, VMware ESXi 5.1, Microsoft Windows Server 2012 x64 Edition, VMware ESXi 5.0, Windows 8.1 64-bit Edition, Linux Kernel 3.x, Microsoft Windows Server 2012 R2 x64 Edition, SuSE Linux Enterprise Server 11 SP3, Red Hat Enterprise Linux 6.5, VMware ESXi 5.5, FreeBSD 10 |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Power

|                                |           |
|--------------------------------|-----------|
| Power Consumption Operational: | 16.7 Watt |
|--------------------------------|-----------|

Miscellaneous

|                      |                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------|
| Compliant Standards: | FCC Class B certified, UL, VCCI, C-Tick, BSMI, RoHS, KCC, Directive 2002/95/EC, MSA SFF-8436 |
|----------------------|----------------------------------------------------------------------------------------------|

Expansion / Connectivity

|             |                                  |
|-------------|----------------------------------|
| Interfaces: | 1 x 40Gb Ethernet / FCoE - QSFP+ |
|-------------|----------------------------------|

Processor / Memory

|            |               |
|------------|---------------|
| Processor: | Intel 82599ES |
|------------|---------------|