

# Intel X540T1 network card Internal Ethernet 10000 Mbit/s

**Brand :** Intel

**Product code:** X540T1

**Product name :** X540T1



Ethernet Converged Network Adapter X540-T1

Intel X540T1 network card Internal Ethernet 10000 Mbit/s:

The Intel® Ethernet Converged Network Adapter X540-T2 is the latest innovation in Intel's leadership to drive 10 Gigabit Ethernet into the broader server market. This adapter hosts Intel's latest Ethernet silicon, the Intel® Ethernet Controller X540, which is used by many OEMs as a single chip solution for LAN on Motherboard (LOM) to deliver 10 Gigabit Ethernet (10 GbE) on the latest server platforms. Intel X540T1. Internal. Connectivity technology: Wired, Host interface: PCI Express, Interface: Ethernet. Maximum data transfer rate: 10000 Mbit/s

| Ports & interfaces                           |                                                                                                                                                                                                                                   | Other features                                             |                                                                                                                                                                                                                                               |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connectivity technology *                    | Wired                                                                                                                                                                                                                             | Intel Flexible Port Partitioning                           | ✓                                                                                                                                                                                                                                             |
| Host interface *                             | PCI Express                                                                                                                                                                                                                       | Speed & slot width                                         | 5.0 GT/s, x8 Lane                                                                                                                                                                                                                             |
| Interface *                                  | Ethernet                                                                                                                                                                                                                          | Low halogen options available                              | ✗                                                                                                                                                                                                                                             |
| Ethernet LAN (RJ-45) ports                   | 1                                                                                                                                                                                                                                 | Intelligent Offloads                                       | ✓                                                                                                                                                                                                                                             |
| PCI version                                  | 2.1                                                                                                                                                                                                                               | iWARP/RDMA                                                 | ✗                                                                                                                                                                                                                                             |
| PCI Card form factor                         | Half-height (low-profile)                                                                                                                                                                                                         | Fiber Channel over Ethernet                                | ✗                                                                                                                                                                                                                                             |
| <b>Network</b>                               |                                                                                                                                                                                                                                   | Intel Data Direct I/O Technology                           | ✓                                                                                                                                                                                                                                             |
| Maximum data transfer rate *                 | 10000 Mbit/s                                                                                                                                                                                                                      | Intel Virtualization Technology for Connectivity (VT-c)    | ✓                                                                                                                                                                                                                                             |
| Networking standards *                       | IEEE 802.1p, IEEE 802.1Q, IEEE 802.3, IEEE 802.3ad                                                                                                                                                                                | Interface type                                             | PCIe v2.1 (5.0 GT/s)                                                                                                                                                                                                                          |
| Ethernet LAN                                 | ✓                                                                                                                                                                                                                                 | Storage Over Ethernet                                      | iSCSI, FCoE, NFS                                                                                                                                                                                                                              |
| Ethernet LAN data rates                      | 100,1000,10000 Mbit/s                                                                                                                                                                                                             | Born on date                                               | Q3'12                                                                                                                                                                                                                                         |
| Quality of Service (QoS) support             | ✓                                                                                                                                                                                                                                 | Launch date                                                | Q3'12                                                                                                                                                                                                                                         |
| Maximum operating distance                   | 100 m                                                                                                                                                                                                                             | Network interface card cable medium                        | Copper                                                                                                                                                                                                                                        |
| LAN controller                               | Intel® X540                                                                                                                                                                                                                       | Network interface card type                                | Server                                                                                                                                                                                                                                        |
| <b>Design</b>                                |                                                                                                                                                                                                                                   | Product brief URL                                          | <a href="http://www.intel.com/content/www/us/en/network-adapters/10-gigabit-network-adapters/ethernet-x540-12-brief.html">http://www.intel.com/content/www/us/en/network-adapters/10-gigabit-network-adapters/ethernet-x540-12-brief.html</a> |
| Internal *                                   | ✓                                                                                                                                                                                                                                 | Product name                                               | Intel Ethernet Converged Network Adapter X540-T1                                                                                                                                                                                              |
| Chipset                                      | X540                                                                                                                                                                                                                              | Product type                                               | Network Interface Card                                                                                                                                                                                                                        |
| <b>System requirements</b>                   |                                                                                                                                                                                                                                   | Status                                                     | Launched                                                                                                                                                                                                                                      |
| Compatible operating systems                 | <a href="https://www.intel.com/content/www/us/en/support/articles/000025890/network-and-i-o/ethernet-products.html">https://www.intel.com/content/www/us/en/support/articles/000025890/network-and-i-o/ethernet-products.html</a> | Number of QPI links                                        | Single                                                                                                                                                                                                                                        |
| <b>Logistics data</b>                        |                                                                                                                                                                                                                                   | Last change                                                | 64826820                                                                                                                                                                                                                                      |
| Harmonized System (HS) code                  | 8517620090                                                                                                                                                                                                                        | Ethernet adapter ARK ID                                    | 58953                                                                                                                                                                                                                                         |
| <b>Other features</b>                        |                                                                                                                                                                                                                                   | Export Control Classification Number (ECCN)                | 5A992C                                                                                                                                                                                                                                        |
| Cable type                                   | RJ45 Category 6 up to 55m; Category 6A up to 100m                                                                                                                                                                                 | Commodity Classification Automated Tracking System (CCATS) | G135872                                                                                                                                                                                                                                       |
| Market segment                               | Server                                                                                                                                                                                                                            | Controller type                                            | Intel® Ethernet Controller X540                                                                                                                                                                                                               |
| Intel® Virtualization Technology (Intel® VT) | VT-c                                                                                                                                                                                                                              | Cabling type                                               | RJ45 Category 6 up to 55m; Category 6A up to 100m                                                                                                                                                                                             |
| Thermal power                                | 13.4 W                                                                                                                                                                                                                            | Bracket height                                             | Low-Profile (LP) / Full-Height (FH)                                                                                                                                                                                                           |
| Intel Virtual Machine Device Queues (VMDq)   | ✓                                                                                                                                                                                                                                 | Product family                                             | Intel 10 Gigabit server adapter                                                                                                                                                                                                               |
| PCI-SIG* SR-IOV Capable                      | ✓                                                                                                                                                                                                                                 | Product series                                             | 500 Series Network Adapters (up to 10GbE)                                                                                                                                                                                                     |
| On-chip QoS and Traffic Management           | ✓                                                                                                                                                                                                                                 |                                                            |                                                                                                                                                                                                                                               |



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