



ON425

2-Port 10G Ethernet PCI-E x4 Network Adapter



ON425 is a PCI-E network adapter with two 10GBase-T ports.

The ORIGO ON425 network adapter is equipped with two 10GBase-T ports, an Intel X550-AT2 controller and a PCI-E 3.0 x4 interface. The adapter is recommended for connecting high-performance PCs, servers and network platforms to corporate infrastructure and data centers.

The ON425 runs up to 10 Gbps at 100 m Cat 6a cable and 5 Gbps/2.5 Gbps/1 Gbps/100 Mbps¹ at 100 m Cat 5e/Cat 6 cables.

The ON425 supports such advanced features as 802.1Q VLAN, 802.1p Priority Encoding, IP, TCP, UDP checksum offload, PXE boot, Microsoft Hyper-V® and iSCSI.

The ON425 supports installation in PCI-E x4/x8/x16 slots. Standard and low-profile brackets are included.

Key Features

- 2x1/2.5/5/10GBase-T ports
- The Intel X550-AT2 controller
- PCI-E 3.0 (8 GT/s) compliant
- PCI-E x4/x8/x16 slots installation
- IEEE 802.1Q VLAN
- IEEE 802.1p Priority Encoding
- Microsoft Hyper-V® and iSCSI support
- PXE boot support
- Low-profile bracket is included

¹ 2.5 Gbps and 5 Gbps speeds are available only for Linux.



Specifications

Hardware

Chipset	• Intel X550-AT2
Interfaces	• 2x10GBase-T ports (RJ-45)
Installation Slot	• PCI-E 3.0 x4/x8/x16
LEDs	• Link/Act - Solid green – device connected - Blinking green – data pass - Lights off – no connection • Speed - Solid green – network connection is at 10 Gbps - Solid amber – network connection is at 1 Gbps - Lights off – network connection is at 100 Mbps
Network Cables	• Fast/Gigabit/2.5Gigabit Ethernet: UTP cat. 3 or above (100 m max.) • 5Gigabit Ethernet: UTP cat. 6 or above (100 m max.) • 10Gigabit Ethernet: cat. 6A or above (100 m max.)

Features

Standards and Functions	• IEEE 802.3u 100Base-TX • IEEE 802.3ab 1000Base-T • IEEE 802.3bz 2.5GBase-T (Linux only) • IEEE 802.3bz 5GBase-T (Linux only) • IEEE 802.3an 10GBase-T • PCI-E 3.0 (8 GT/s) compliant • IEEE 802.3x Flow Control • 15.5 KB Jumbo Frame • IEEE 802.1p Priority Encoding • IEEE 802.1Q VLAN • IEEE 802.3az Energy-Efficient Ethernet • PXE boot • IP, TCP, UDP checksum offload
Data Rate	• 20 Gbps (full-duplex)

System Requirements

Operating System	• Windows 11/10/8/8.1/7 (x64)
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	• Windows Server 2022/2019/2016/2012/2008 R2 (x64) • Linux 2.4.x and later
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Physical Parameters

Dimensions (L x W)	• 140 x 120 mm
Weight	• 92 g

Operating Conditions

Power	• PC (PCI-E)
Temperature	• Operating: 0 to 40 °C • Storage: -25 to 70 °C
Humidity	• Operating: 20% to 80% (non-condensing) • Storage: 20 to 80% (non-condensing)

Package Contents

Package Contents	• ON425 PCI-E Network Adapter • Low-Profile Bracket • Quick Installation Guide
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Order Info

ON425	PCI-E x4 Network Adapter, 2x10GBase-T
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