



InLine 51125N interface cards/adapters Internal



Model: 51125N

Manufacturer: INLINE

EAN: 4043718341412

Product Code: 1552516

R2,219

Extensive fibre optic network connection with up to 1 Gb/s (fibre)

Supports 1000BASE-SX/LX/BX for flexible deployment options

Powerful Intel WGI210CS chipset for optimum stability

PCIe x1 interface with standard and low-profile bracket

Compatible with Windows, Linux, FreeBSD and virtualisation systems

This **InLine® Gigabit network card, 1x SFP fibre 1Gb/s** was developed for use in **desktop, server and embedded systems** and meets modern requirements in terms of **energy efficiency, form factor and network stability**. It is equipped with an SFP slot that supports various fibre optic transceivers and thus enables flexible network connections over different distances and media types.

By supporting current network protocols and functions such as **VLAN tagging, flow control, jumbo frames or checksum offloading**, the card is suitable for both standard networks and

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specialised applications, such as audio-video transmission in accordance with IEEE 802.1Qav. The card is installed via a PCIe slot (PCI Express 2.1), allowing it to be easily integrated into existing systems.

Technical data:

Bus type: PCIe v2.1 (5.0 GT/s) x1 lane

Data rate: 1 Gb/s (fibre)

Chip set: Intel WGI210CS

Supported protocols: IPv4, IPv6

Dimensions: 96 mm x 62 mm (PCIe board)

Supported network modes:

The card can use various fibre optic connections, including:

1000BASE-SX (multimode): For short distances with light signals.

1000BASE-LX (singlemode): For longer distances with a thinner optical fibre.

1000BASE-BX (singlemode WDM): For special applications where uploads and downloads run over a single fibre.

Supported interfaces:

Serializer-Deserializer (SerDes) for 1000BASE-SX/LX (optical fibre - IEEE 802.3)

Serialiser-Deserialiser (SerDes) for 1000BASE-KX (IEEE 802.3ap)

1000BASE-BX (PICMIG 3.1) for gigabit backplane applications

SGMII (Serial-GMII specification) interface for SFP (SFP MSA INF-8074i)/external PHY connections

Supported network functions:

IEEE 802.3x Flow Control: Helps to avoid data congestion in the network.

IEEE 802.1q VLAN: Makes it possible to divide a network into several virtual networks.

Receive-side Scaling (RSS): Distributes incoming network data to multiple CPU cores for load balancing and better performance with multi-core processors.

Jumbo frames up to 9K: Allows larger data packets for more efficient transmission.

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Checksum Offloading: Relieves the processor when calculating checksums to improve performance.

Environmental conditions:

Operating temperature: 0 °C to 55 °C

Storage temperature: -40 °C to 70 °C

Supported operating systems:

Windows: 11, 10, 8, 7

Windows Server: 2008 R2, , 2012, 2016, 2019, 2022

Linux: from kernel version 2.6.30

Other: FreeBSD, virtualisation environments (e.g. VMware ESXi)

Scope of delivery:

1x InLine® Gigabit network card

1x low-profile slot bracket

1x driver CD

1x user manual (German/English)

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