

# Gigabit Ethernet PCI Adapter Card, 1000Base-SX MS483700 / MS483701

# MICROSENS

## General Information

**MICROSENS's** Gigabit Ethernet Fiber Adapters are an extension of the widely used 1000 Mbit/s Ethernet standards for network connectivity. It provides a tenfold increase in Media Access Control data rates to support video conferencing, complex imaging and other data intensive applications. Compared to Ethernet the speed is 100 times higher and compared to Fast Ethernet 10 times higher.

Especially for high end server and backbone connections this adapter card is very suitable. This card is a cost effective solution to offer enough performance for the today's heavy-loading networks.

The MICROSENS Gigabit Ethernet adapter card supports the most common operating systems, e.g. Win98, WinMe, Win2000, WinNT4.0 and SCO UNIX OPENSERVR.

The MS483700 is a Full-Duplex adapter card connected to a Gigabit Ethernet network with a duplex fiber line with SC type connector. Optionally there are different connectors and several single mode versions available.

The MS483700 uses Bus-mastering DMA approach to optimize throughput and provide the optimal combination of cost and system-level performance for high-performance network connection.

## Features

- IEEE 802.3 compliant
- 66/33 MHz, 64/32bit PCI V2.2 MAC/BIU
- supports 1000Mbps, Jumbo packets, Virtual LAN (VLAN) and long frame.
- BIU compliant with PC97 and PC98 Hardware Design Guides, PC99 Hardware Design Guide draft, ACPI v1.0,
- supports 802.3x Full duplex flow control including automatic transmission of Pause frames based on Rx FIFO thresholds and IPv.4 Checksum task off-loading
- Supports checksum generation and verification of IP/TCP and UCP headers
- Internal 8 KB Transmit and 32KB Receive data FIFOs
- Serial EEPROM port with auto-load of configuration data from EEPROM at power-on

## Technical Specifications

<b>Type</b>	PCI 1000Base-SX(LX) Adapter Card according to IEEE802.3z
<b>Fiber type</b>	Multimode 62,5/125 or 50/125 $\mu\text{m}$ (optionally 9/125 $\mu\text{m}$ )
<b>Access Method</b>	CSMA/CD
<b>PCs support</b>	PCI Local Bus Rev. 2.2
<b>System Clock</b>	Up to 66/33MHz
<b>Host Data Bus Architecture</b>	64/32-bit Bus Mastering
<b>Power Management</b>	PCI Support
<b>Data rate</b>	1000 Mbit/s
<b>Conformance</b>	FCC Class A, CE
<b>Extensive LAN Drivers Support</b>	ODI, NDIS4, NDIS5, UNIX, LINUX, SCO UNIX OPENSEREVER UNIX WARE
<b>Network Operating Systems</b>	Netware Server 5.0, Win95, Win98, WinME, Win2000, WinNT4.0, SCO UNIX OPENSEREVER, UNIX WARE 7,LINUX, SOLARIS
<b>LED displays</b>	Link/Act
<b>Dimensions</b>	163.1 X 80 mm
<b>Operating temperature</b>	5°C to 55°C
<b>Rel. humidity</b>	10% to 90% (non-condensing)

## Order Information

Part-no.	Description	Connectors
MS483700	PCI Gigabit Ethernet Adapter Card, 1000Base-SX, 850 nm multimode	2xSC
MS483701	PCI Gigabit Ethernet Adapter Card, 100Base-LX, 1300nm single mode	2xSC

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