

# PCI Fast Ethernet Adapter card Fiber-Link (100Base-FX) 32 Bit

# MICROSENS

## General features

The MICROSENS Fast Ethernet PCI adapter card offers the direct connection of end devices to a Fast Ethernet fiber network according to IEEE802.3 standard (Fiber To The Desk).

The connection of the adapter card is done with a duplex fiber with ST or SC connector. Using multimode fiber it is possible to cover distances up to 2 km un full duplex mode. There are extended versions for single mode fibers available. These versions allow transmission distances up to 125 km using full duplex mode.

- 32-bit Bus Master Architecture Support
- PCI bus clock speed range: 16.75 to 40 MHz
- Supports up to 128K bytes Boot ROM
- Wake-On-LAN (WOL) function and remote wake-up (Magic packet, LinkChg and Microsoft wake-up frame)
- Support of half/full-duplex for data rates up to 200Mbit/s
- PCI plug-n-play compatible
- Low CPU utilization
- Provides diagnostic program
- IEEE 802.3u 100BASE-FX compatible
- IEEE 802.3x full-duplex flow control Support
- PCI Specifications Revision 2.2
- Provides status LEDs
- Provides 5 types of fiber connections: multi-mode ST, SC, VF-45, MT-RJ, and single-mode SC
- Full VLAN functionality according to IEEE 802.1Q

## Driver support

For this card there are several drivers for the different operating systems available. Beside others the following systems are supported:

- NDIS3, NDIS4, NDIS5 for Win95, 98, NT 3.51, 4.0, 5.0, WFW3.11, Windows 2000, Windows XP
- NDIS2 (DOS, OS/2, LANtastic, WFW3.1...)
- NetWare 16-bit ODI driver for DOS, OS/2 and 32-bit ODI driver for NetWare 3.x, 4.x, 5.0 Server
- Packet driver for UNIX Client
- Linux driver
- DMI support
- RPL Boot ROM for Novell NetWare, Microsoft NT  
PXE Boot ROM

All driver updates can be downloaded from our internet server at:  
**[www.microsens.com](http://www.microsens.com)**

## LED displays

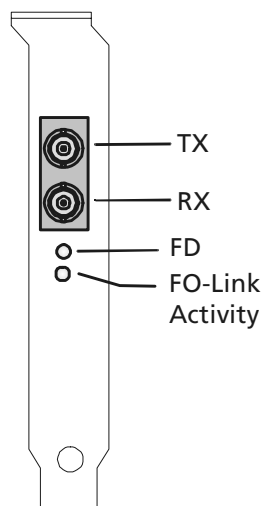


Fig.1 Status LEDs

## Technical Specifications

<b>Type</b>	Fast Ethernet PC adapter card 100Base-FX (IEEE 802.3u) PCI Bus / Full-Duplex / Plug and Play
<b>PC Bus</b>	PCI
<b>Data rate</b>	100 Mbit/s
<b>Fiber type</b>	Multimode fiber, 62,5/125 µm or 50/125 µm, duplex, with SC connector (ST optional).
<b>Wavelength</b>	1.300 nm
<b>Opt. power</b>	-19 dBm (1300 nm multimode min.) -15 dBm (1300 nm single mode min., 15 km version)
<b>Opt. sensitivity</b>	-30 dBm (1300 nm multimode) -31 dBm (1300 nm single mode, 15 km version)
<b>Max. distance</b>	Full duplex: 2 km (multimode) 15..125 km (single mode) Half duplex: 412 m
<b>LED displays</b>	<i>Power</i> Card ready for operation <i>Link</i> Fiber connection correct <i>Activity</i> Data transmission on fiber port
<b>Operating temp.</b>	0°C to 40°C (32 F- 104 F)
<b>Storage temp.</b>	-25°C to 70°C (-13 F-158 F)
<b>Rel. humidity</b>	10% to 90% non condensing
<b>Dimensions</b>	130 mm x 65 mm (5.12" x 2.56")

## Order information

<b>Art.-no.</b>	<b>Description</b>	<b>Connectors</b>
MS482681	PCI Fast Ethernet adapter card, Boot ROM Option, wake-on-LAN, multimode 1300nm	2x ST
MS482682	PCI Fast Ethernet adapter card, Boot ROM Option, wake-on-LAN, multimode 1300nm	2x SC
MS482683	PCI Fast Ethernet adapter card, Boot ROM Option, wake-on-LAN, multimode 1300nm	1x VF-45
MS482687	PCI Fast Ethernet adapter card, Boot ROM Option, wake-on-LAN, single mode 1300nm, min. 15 km	2x SC
MS482689	Boot Manage PXE PROM MS48268x	-

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