



FC9051, FC9151 | Mini PCI Ethernet

Ethernet TCP/IP The FC9x51 Mini PCI Card brings further Ethernet ports to the Industrial PC in a compact construction. The bus interface is not implemented on the fieldbus card, but separately in the respective housing (device-specific). The FC9x51 is available for Beckhoff Industrial PCs with Mini PCI option. Like the standard PCI cards, the Mini PCI variants are specifically optimised for fast controllers and real-time tasks:

- automatic baud rate setting according to IEEE 802.3u
- Ethernet and real-time Ethernet protocols, EtherCAT-ready
- full duplex at 10 and 100 Mbit/s

In combination with the Ethernet Mini PCI Cards, a third Ethernet port is available in the Industrial PC with 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s. While the 100 Mbit/s Ethernet port offers optimum performance for all EtherCAT control tasks, a gigabit port is available for connecting the higher-level network.

The power of the Fieldbus Cards can be most easily seen in combination with the TwinCAT software PLC and NC. But other applications also benefit from the intelligent PCI cards that handle the fieldbus protocol efficiently on their own processors.

Technical data	FC9051	FC9151
Fieldbus	all Ethernet (IEEE 802.3) based protocols	
Technology	Ethernet card	
Number of Ethernet channels	1	
Data transfer rates	10/100 Mbit/s, IEEE 802.3u auto-negotiation, full duplex at 10 and 100 Mbit/s	10/100/1000 Mbit/s, IEEE 802.3ab auto-negotiation, full duplex at 10, 100 and 1000 Mbit/s
Interface to the PC	Mini PCI	
Ethernet interface	10BASE-T/100BASE-TX Ethernet	10BASE-T/100BASE-TX/1000BASE-TX Ethernet
Ethernet plug	1 x RJ45	
Cable length	up to 100 m	
Standard drivers	standard drivers or Beckhoff driver for different Windows versions (available from Beckhoff website)	
Real-time drivers	TwinCAT drivers for EtherCAT/real-time Ethernet. Drivers can be selected separately for each channel.	
Type	Mini PCI	
Hardware diagnosis	2 LEDs per channel (activity, link)	
Dimensions	59.75 mm x 44.60 mm (type III B)	
Operating temperature	0...+55 °C	

Ordering information	
FC9051-0000	standard configuration (can only be ordered with a Beckhoff Industrial PC with Mini PCI option)
FC9151-0000	standard configuration (can only be ordered with a Beckhoff Industrial PC with Mini PCI option)

Accessories	
TX1100	I/O driver

System	
Ethernet TCP/IP	For further Ethernet TCP/IP products please see the system overview .