FC9051, FC9151 | Mini PCI Ethernet

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 1,000 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
Bus system	Ethernet (all IEEE 802.3-based protocols), EtherCAT	
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, separate settings for each channel	10/100/1,000 Mbit/s, IEEE 802.3u auto-negotiation, full duplex at 10 and 100 Mbit/s, separate settings for each channel
Interface to the PC	Mini PCI interface	
Communication	Ethernet and real-time Ethernet protocols, EtherCAT-ready	
Bus device	Ethernet standard	
Standard drivers	standard operating system drivers for Intel®-compatible NIC real-time driver	
Real-time drivers	TwinCAT drivers for real-time Ethernet. Drivers can be selected separately for each channel.	
Dimensions	59.75 mm x 44.60 mm (type III B)	
Operating temperature	0…+55 °C	

Ordering information	FC9051-0000	FC9151-0000
FC9x51-0000	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.