



## FC9001-0010, FC9011, FC9022 | PCI Ethernet

### Ethernet TCP/IP

The Ethernet PCI network cards from Beckhoff save space and costs. They can be used in office and automation networks and offer the following benefits:

- plug-and-play interface
- 10/100/1,000 Mbit/s (FC9011, FC9022), 10/100 Mbit/s (FC9001-0010), full duplex

- automatic baud rate setting according to IEEE 802.3u
- maximum performance through hardware-integrated checksum creation and verification
- The hardware side supports Quality of Service (QoS) through prioritised multiple queues.

- Wake on LAN
  - Boot from LAN (PXE) (only FC9011)
- Naturally, the cards (or individual channels) can also be operated with TwinCAT drivers – and therefore in real-time.

Technical data	FC9001-0010	FC9011	FC9022
Fieldbus	all Ethernet (IEEE 802.3) based protocols		
Number of Ethernet channels	1	1	2
Data transfer rates	10/100 Mbit/s, IEEE 802.3u auto-negotiation, full duplex at 10 and 100 Mbit/s	10/100/1,000 Mbit/s, IEEE 802.3ab auto-negotiation, full duplex at 10, 100 and 1,000 Mbit/s	10/100/1,000 Mbit/s, IEEE 802.3ab auto-negotiation, full duplex at 10, 100 and 1,000 Mbit/s
Interface to the PC	plug-and-play PCI interface 32 bit	plug-and-play PCI interface 32 bit	PCI Express x1
Ethernet interface	10BASE-T/100BASE-TX Ethernet	10BASE-T/100BASE-TX/1,000BASE-TX Ethernet	10BASE-T/100BASE-TX/1,000BASE-T Ethernet
Ethernet plug	1 x RJ 45	1 x RJ 45	2 x RJ 45
Cable length	100 m (up to switch or end device)		
Standard drivers	standard operating system drivers for Intel®-compatible NIC real-time driver or Beckhoff driver for Windows 2000/XP and Windows 7 (available from Beckhoff website)		
Real-time drivers	TwinCAT drivers for EtherCAT/real-time Ethernet. Drivers can be selected separately for each channel.		
Hardware diagnosis	2 LEDs per channel (activity, link)		
Dimensions	approx. 51 mm x 120 mm	approx. 51 mm x 120 mm	approx. 46 mm x 90 mm
Operating temperature	0...+55 °C		
Further information	www.beckhoff.com/FC9001		

Ordering information	FC9001-0010	FC9011-0000	FC9022-0000
FC90xx-00xx	standard configuration		

Accessories	
Cordsets	cordsets and connectors