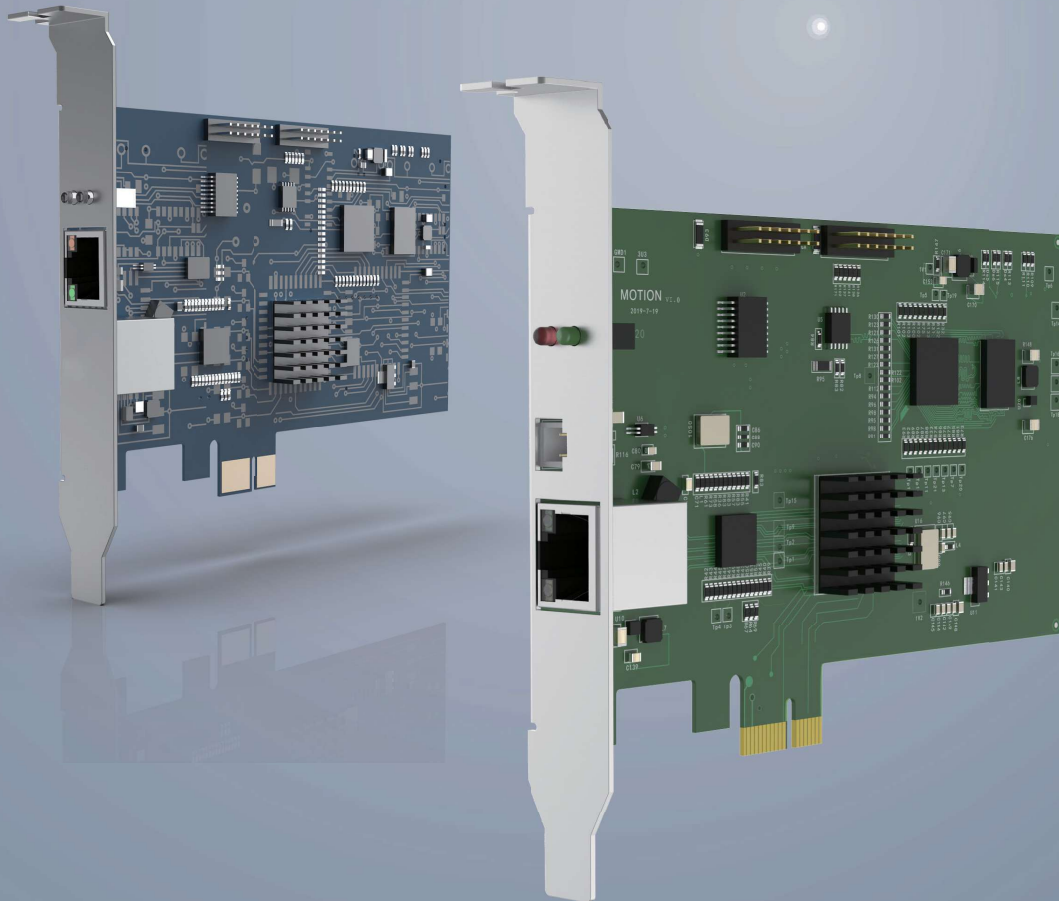
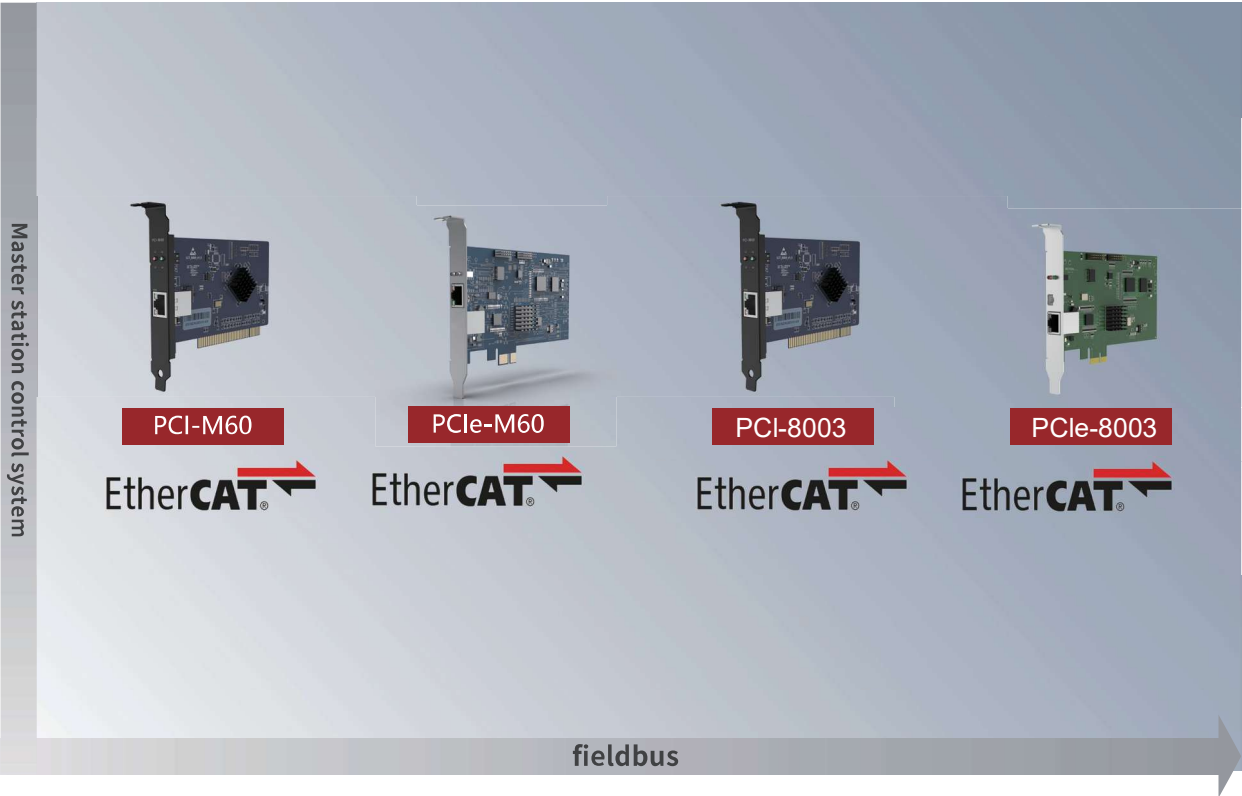


EtherCAT Motion Control Card



Motion control card



Convenient and fast debugging and testing functions

■ Motion Assistant debugging software provides various control functions, users can easily verify and debug single-axis or multi-axis systems, and quickly debug whether various tests and actions meet the needs.

System scanning equipment

The type of the device scanned by the lower computer and the related parameters of the device.



PCI//PCIe- Bus motion control card series

▶ Product system



▶ PCI-M60 EtherCAT Master station card

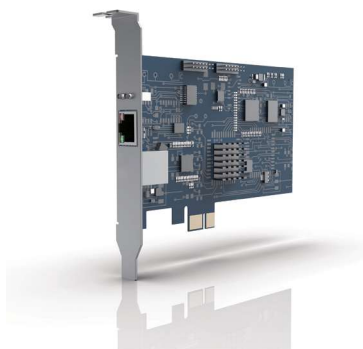


PCI-M60

M60 EtherCAT Master station card

- Up to 32 axes motion control and 1024 IO point control
- EtherCAT control cycle up to 250us
- Compatible with mainstream EtherCAT slave stations on the market
- Dedicated emergency stop input
- Single channel pulse input
- Supports up to 2-4 linear interpolation, 3D arc interpolation and spiral interpolation
- IO is compatible with LC1100 series, LCTE-MINI series and other EtherCat IO

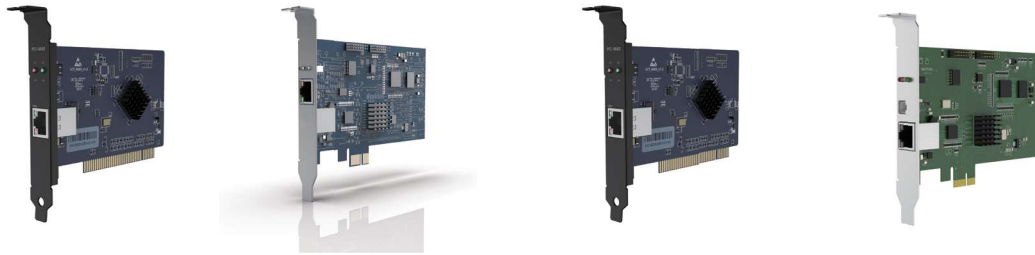
▶ PCIe-M60 EtherCAT Master station card



PCI-M60

M60 EtherCAT Master station card

- Compatible with PCI Express® x1
- Up to 32 axes motion control and 1024 I/O point control
- EtherCAT control cycle up to 250us
- Compatible with mainstream EtherCAT slave stations on the market
- Dedicated emergency stop input
- Single channel pulse input
- Support up to 2-4 linear interpolation, 3D arc interpolation and spiral interpolation



M60 network system

The Ether-CAT network is used for control

Running on the open EtherCAT, it can freely match manufacturer's servo drive and the IO with the protocol, which is convenient and efficient to build the network system and ensure the highest efficiency of use.



EtherCAT

M60 bus motion control card

With Ether-CAT, precise control of up to 32 axes is possible, while IO control of 1024 points is supported.



LCT series distributed I/O modules



LCT- Step series



LCT- Servo



LCT- Servo driver

Distributed high-speed bus IO module

Support LC1100 IO, analog, temperature, pressure, encoder control, while supporting LCT-MINIIO control

Support bus driver

Supports the bus control of LC-7000 series, stepper drivers, and supports third-party servo drivers.

The PCIe-M60 supports multiple platforms

- Operating system
Windows 7/10 32-bit / 64-bit
 - Function library
 - API libraries for I/O control
 - VS C#
 - VB.NET, and C++
 - LabView, VB6.0 by use
- The driver comes with debugging software



C



C++



C#



Windows 7



Windows 8
Windows 10



EtherCAT Master station card



Features and uses

- ◆ Compatible with PCI Express "x1
- ◆ EtherCAT control cycle up to 250us
- ◆ EtherCAT enables up to 32 axes
- ◆ 1024 DIO and analog quantity acquisition and output
- ◆ Compatible with most servo drives on the market
- ◆ IO Compatible with LC1100 series
- ◆ LCTE-MINI-IO16/LCTE-MINI-IN32/LCTE-MINI-OUT32
- ◆ Connects to the slave station through Class 6 network cables
- ◆ Dedicated emergency stop input
- ◆ Point-table function for trajectory applications
- ◆ Support up to 2-4 linear interpolation, 3D arc interpolation
- ◆ and 3D spiral interpolation



Features and uses

- ◆ Compatible with PCIe Expressx1
- ◆ EtherCAT control cycle up to 250us
- ◆ EtherCAT enables up to 32 axes
- ◆ 1024 DIO and analog acquisition and output
- ◆ Compatible with most servo drives on the market
- ◆ IO Compatible with LC1100 series
- ◆ LCTE-MINI-IO16 LCTE-MINI-IO16K
- ◆ LCTE-MINI-IN32 LCTE-MINI-IO16P
- ◆ LCTE-MINI-OUT32 LCTE-MINI-OUT32K
- ◆ LCTE-MINI-AD8/16 LCTE-POE-8DIO
- ◆ Connect to the slave station through Class 6 network cables



Features and uses

- ◆ Compatible with PCIe slots
- ◆ EtherCAT control cycle up to 250us
- ◆ Up to 512 DIs and 512 DOs can be implemented
- ◆ With analog quantity acquisition and output
- ◆ IO Compatible with LC1100 series
- ◆ LCTE-MINI-IO16 LCTE-MINI-IO16K
- ◆ LCTE-MINI-IN32 LCTE-MINI-IO16P
- ◆ LCTE-MINI-OUT32 LCTE-MINI-OUT32K
- ◆ LCTE-MINI-AD8/16 LCTE-POE-8DIO
- ◆ Connect to the slave station through Class 6 network cables

PCIe-M60 series

Product specification	
EtherCAT communication	
EtherCAT control period	Single channel @ 250 us 500 us / 1000 / us / 2000 us
EtherCAT motion	Up to 64 axes
	Moving I/O interface signal
Emergency stop input	Single channel
General specification	
Operating temperature	0°C to +60°C
Humidness	5% to 95%, non-condensing
Environmental specification	
Safety specification	CE/FCC, RoHS
Isolate I/O signals	
Digital input	4 channels (2 channels can be configured as pulse input)
Pulse input mode	CW/CCW; 1x/2x/4x AB phase
Pulse input frequency	Up to 1MHZ
Digital input voltage	24Vdc(typical)/5Vdc for pulse connections
Numeric input type	Source current
Digital output	4-channel isolation
Digital input voltage	24V(typical value)
Numeric input type	90mA,NPN filling current

Technical parameters of PCIe-M60 bus motion control card

Parameter requirement		
EtherCAT	Baud rate	100Mhz, full duplex
	Control mode	CSP/CST/Home
	SDO mode	COE
	Communication cycle	250us/500us/1ms/
	Interpolation period	250us/500us/1ms/
	DC	support
	Quiver	<= 100ns
	Distance between two adjacent stations	Network cables not exceeding 100m6 (or higher)
	The software can be configured flexibly	The Motion Assistant is flexibly configured
	Automatically scan the slave station	Supports automatic scanning
	EtherCAT IO	512 points of input 512 points of output



PCIe-M60 product selection

Name	Model number	Description	Remark
Motion control card	PCIe-M60EC01A	EtherCAT bus energy motion control card based on PCIe	
	PCIe-M60EC01B		
	PCIe-M60EC01C		
	PCIe-M60EC01D		
	PCIe-M60EC01E		
	PCIe-M60EC01F		

Technical parameters of PCIe-8003 bus motion control card

Parameter requirement		
EtherCAT	Baud rate	100Mhz, full duplex
	Slot type	PCIe
	SDO mode	COE
	Communication cycle	250us/500us/1ms/
	Interpolation period	250us/500us/1ms
	DC	support
	Quiver	<= 100ns
	Distance between two adjacent stations	Not more than 100m6 class
	The software can be configured flexibly	The Motion Assistant is flexibly configured
	Automatically scan the slave station	Supports automatic scanning
	EtherCAT IO	512 points of input 512 points of output



PCI-8003 product selection

Name	Model number	Description	Remark
Motion control card	PCI-8003	PCI based EtherCAT bus IO control card	