EtherCat Master station card



MDCC1series

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 MDIOC series
  MDIOM-MINI-IO16/MDIOM-MINI-IN32/ MDIOC -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



MDCC2 series

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 MDIOC series

MDIOM-MINI-IO16	MDIOM-MINI-IO16K
MDIOM-MINI-IN32	MDIOM-MINI-IO16P
MDIOM-MINI-OUT32	MDIOM-MINI-OUT32K
MDIOM-MINI-AD8/16	MDIOM-POE-8DIO

- Connect to the slave station through
  Class 6 network cables



MDCC3/4 series

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 MDIOC series

MDIOM-MINI-IO16	MDIOM-MINI-IO16K
MDIOM-MINI-IN32	MDIOM-MINI-IO16P
MDIOM-MINI-OUT32	MDIOM-MINI-OUT32K
MDIOM-MINI-AD8/16	MDIOM-POE-8DIO

- Connect to the slave station through Class 6 network cables

MDCC 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 MDCC 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



MDCC2 product selection

Name	Model number	Description	Remark
Motion control card	MDCC2-A	EtherCAT bus energy motion control card based on PCIe	
	MDCC2-B		
	MDCC2-C		
	MDCC2-D		
	MDCC2-E		
	MDCC2-F		

Technical parameters of MDCC3 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



MDCC3 product selection

Name	Model number	Description	Remark
Motion control card	MDCC3	MDCC based EtherCAT bus IO control card	



Address: 7191 Yonge street, Toronto, Canada

Tel: +16472221281(5 line)

Web: www.madecotech.com

Email: Info@madecotech.com