Oriental motor



Network Converter

EtherCAT Compatible NETC01-ECT

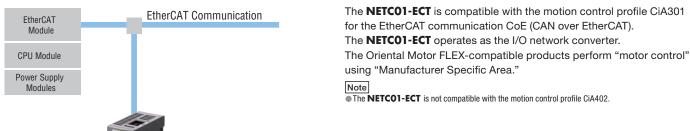
The EtherCAT network converter **NETCO1-ECT** is a device that converts from an EtherCAT communication to Oriental Motor's own RS-485 communication protocol. By using the **NETC01-ECT** network converter. Oriental Motor's entire "FLEX"-compatible products can be controlled within an EtherCAT communications environment.

"FLEX" is the generic name for products that are used for I/O control, Modbus (RTU)/RS-485 control or a network converter. Flex products enable easy connection, and reduce the complexity of system configuration.











AC Input

CRK Series (FLEX) DC Input

DGII Series FLEX

AC Input DC Input

Motorized Linear Slides EAS Series FLEX

AC Input DC Input

Coming soon

Simple Setting and Easy Monitoring

The NETCO1-ECT can be set via EtherCAT communication or using the control module OPX-2A (sold separately) or data setting software MEXEO2. The OPX-2A and MEXEO2 can be used for monitoring remote I/O or remote register.





Data Setting Software MEXEO2

ESI File

Coming soon

The ESI file is available for the NETCO1-ECT, EtherCAT gateway controller. Please contact us for further information. For the **NETCO1-ECT** installation and connection information, see the operator's manual.

The following items are included in each product. Network Converter, RS-485 Communication Cable, Power Supply Connector, Operating Manual

■Specification (RoHS) (€

Power Supply Input

24 VDC ±10% Current Consumption 0.2 A

EtherCAT Specification NETC01-ECT

Item	Description
Baud Rate	100 Mbps
Communication Period	Subject to the setting of the master device
Node Address	0~255 (00h~ FFh, initial value: 01h)
Maximum Number of Byte	300 bytes
Communication Protocol	EtherCAT dedicated protocol (CoE), profile type: CiA301 compatible
Communication Cable	Category 5 straight cable (shielded twisted cable)

RS-485 Specification

Item	Description	
Electrical Characteristics	EIA-485 compliance, straight cable	
	Twisted-pair wire (TIA/EIA-568B CAT5e or greater recommended) is used up to a total extension length 50 m.	
Communication Mode	Half duplex communication, asynchronous mode (data: 8 bits, stop bit: 1 bit, parity: none)	
Baud Rate	625,000 bps	
Protocol	Frame size: 10 bytes (fix), binary transmission	
Maximum Number of Connectable Units	16 units	

General Specification

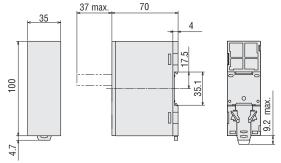
Item		Description
Insulation Resistance		100 MΩ min when measured with a 500 VDC megger is applied between the following locations:
		· FG terminal – power supply terminal
Dielectric Strength		Sufficient to withstand 500 VAC, 50 Hz or 60 Hz applied between the following places for 1 minute:
		· FG terminal – power supply terminal
Operating Environment (In Operation)	Ambient Temperature	0~+ 40°C (non-freezing)
	Ambient Humidity	85% max. (non-condensing)
	Altitude	Max. of 1000 m above sea level
	Atmosphere	No corrosive gasses, dust, water or oil.
Storage, Transportation Environment	Ambient Temperature	-25 ~+70°C (non-freezing)
	Ambient Humidity	85% max. (non-condensing)
	Altitude	Max. of 3000 m above sea level
	Atmosphere	No corrosive gasses, dust, water or oil.

Note

Do not measure insulation resistance or perform the dielectric strength test while the motor and driver are connected.

Dimensions Unit = mm

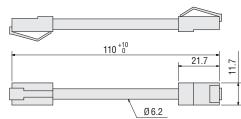




 EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Accessories (Included)

•RS-485 Communication Cable



Power Supply Connector

Connector: MC1,5/3-STF-3,5 (PHOENIX CONTACT GmbH & Co. KG)

These products are manufactured at plants certified with the international standards ISO 9001 (for quality assurance) and ISO 14001 (for systems of environmental management).

Specifications are subject to change without notice. Published in May 2013.

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