Oriental motor



Network Converter

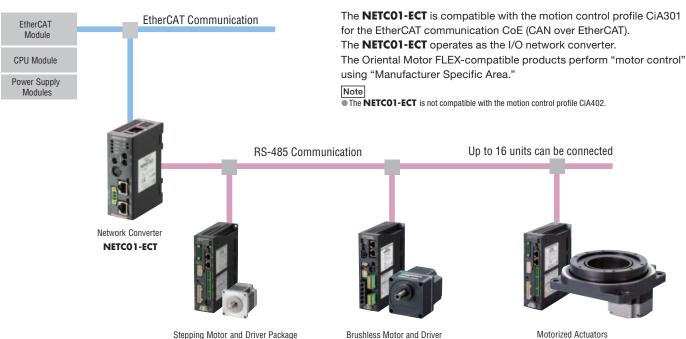
EtherCAT Compatible NETC01-ECT

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 **NETCO1-ECT** network converter, Oriental Motor's entire FLEX-compatible products can be controlled within an EtherCAT communications environment.









Stepping Motor and Driver Package **ASTEP** AR Series (FLEX)

AC Input

CRK Series (FLEX) DC Input

Motorized Actuators Hollow Rotary Actuator

DG II Series FLEX AC Input DC Input

Motorized Linear Slides EAS Series (FLEX) AC Input DC Input

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 MEXE02. The OPX-2A and MEXE02 can be used for monitoring remote I/O or remote register.





Data Setting Software **MEXEO2**

ESI File

Package

BLE Series FLEX

AC Input

The ESI file is available for download at www.orientalmotor.com for the NETCO1-ECT, EtherCAT gateway controller. 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

<u> </u>	
Item	Description
Baud Rate	100 Mbps
Communication Period	Subject to the setting of the master device
Node Address	$0\sim$ 255 (00h \sim 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 (164 ft.).		
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

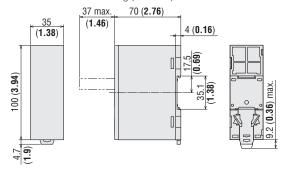
	Item	Description
Insulation Resistance		100 M Ω min when measured with a 500 VDC megger is applied between the following locations:
		· FG terminal – power supply terminal
Dielectric Strength		Sufficient to withstand 500 VAC, 50 Hz or 60 Hz applied between the following places for 1 minute:
		· FG terminal – power supply terminal
Operating Environment (In Operation)	Ambient Temperature	$0\sim +40^{\circ}\text{C} (+32\sim +104^{\circ}\text{F}) \text{ (non-freezing)}$
	Ambient Humidity	85% max. (non-condensing)
	Altitude	Max. of 1000 m (3300 ft.) above sea level
	Atmosphere	No corrosive gasses, dust, water or oil.
Storage, Transportation Environment	Ambient Temperature	-25~+70°C (-13~+158°F) (non-freezing)
	Ambient Humidity	85% max. (non-condensing)
	Altitude	Max. of 3000 m (10000 ft.) 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 (in.)

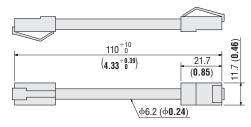
NETCO1-ECT Mass: 0.15 kg (0.33 lbs.)



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

Accessories (Included)

RS-485 Communication Cable



Power Supply Connector

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

Specifications are subject to change without notice. This catalog was published in February, 2013.

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