

EtherCAT®



ECAT-2610

EtherCAT SubDevice to Modbus RTU Main Device Gateway

Features

- Powerful MCU handles efficient network traffic
- 2 x RJ-45 EtherCAT Connectors
- Integrate RS-232/422/485 serial device to EtherCAT
- Allows system integrators to retro-fit older automation devices into modern EtherCAT communication structures
- Requires no hardware or software changes to be made to the connected device
- Compatible with all PLCs with EtherCAT support
- Performs complete serial protocol conversion, no PLC function blocks required
- Supports maximum 256 WORD Input and 256 WORD Output Data
- Supports Serial Port interface
 - Supports Modbus RTU (Main Device) Protocol
 - Supports RS-232/422/485 Port
 - Supports Maximum Baud Rate 115200 bps



Introduction

Integrate your serial RS-232/422/485 based industrial devices and equipment to an EtherCAT control system without the need for any changes to the device. Just connect, configure and it's finished.

The ECAT-2610 Communicator is a proven and trusted protocol converter gateway that connects non-networked industrial devices and equipment to EtherCAT. The gateway performs an intelligent protocol conversion and presents the serial data to the Main Device PLC/Controller as easily processed I/O data.

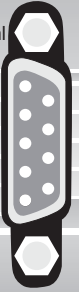
* EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Specifications

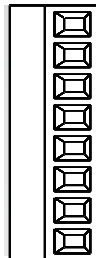
COM Ports	
Ports	1 x RS-232/422/485
Protocol	Modbus RTU (Main Device)
EtherCAT	
Ports	RJ-45 x 2 Distance between Stations: Max. 100 m (100BASE-TX) Data Transfer Medium: Ethernet/EtherCAT Cable (Min. CAT 5e)
Cycle Time	10 ms
Distributed Clocks	N/A
Power	
Reverse Polarity Protection	Yes
Input Range	+12 VDC ~ +48 VDC
Consumption	0.1 A @ 24 VDC
Mechanical	
Casing	Plastic
Dimensions (W x L x H)	33 mm x 127 mm x 99 mm
Installation	DIN-Rail
Environmental	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

Pin Assignments

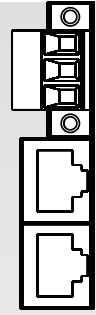
COM1 (Console Port)				
Pin Assignment	Terminal	No.	Pin Assignment	
--	01	06	--	
RxD	02	07	--	
TxD	03	08	--	
--	04	09	--	
GND	05			



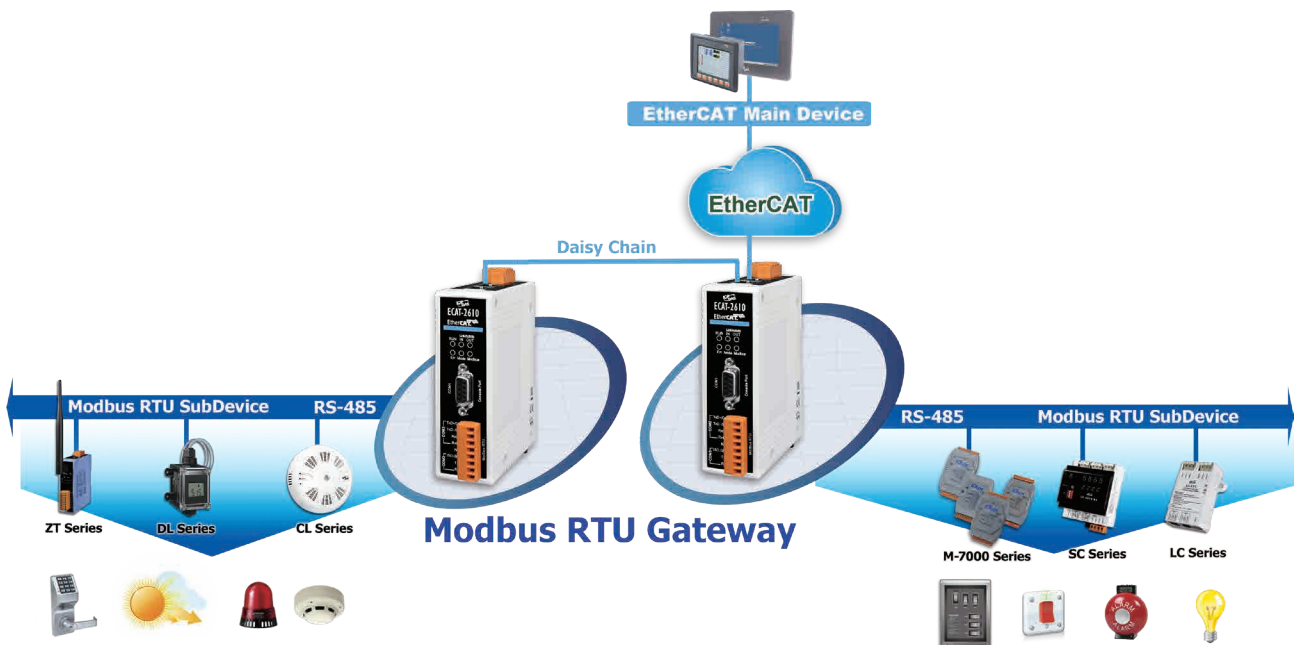
COM2/COM3 (Modbus RTU)		
Terminal No.		Pin Assignment
COM2		TxD+/D+
		TxD-/D-
		RxD+
		RxD-
COM3		N/A
		ISO.GND
		TxD
		RxD



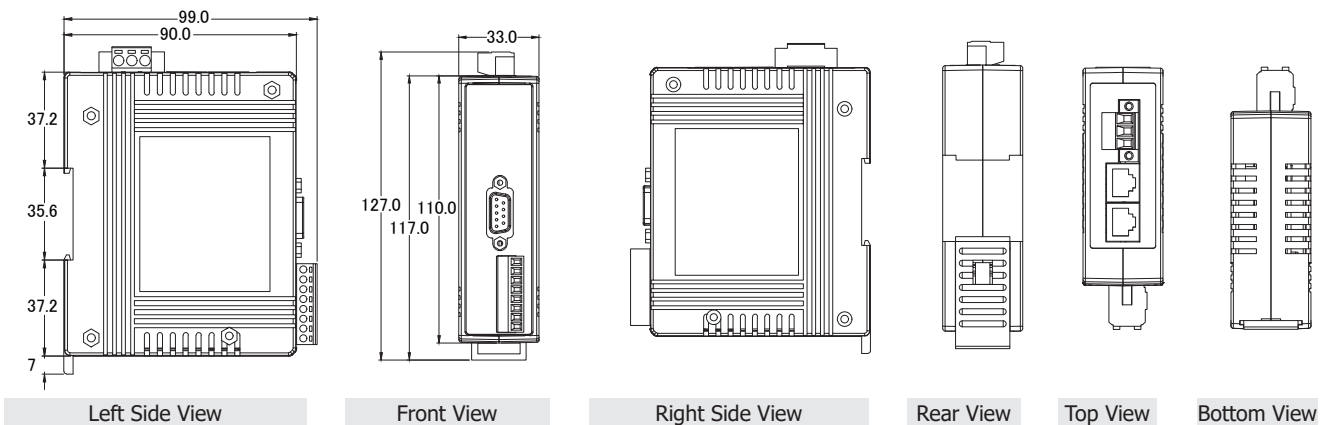
EtherCAT Interface	
Terminal No.	Pin Assignment
	F.G.
	GND(-)
	PWR(+)
	IN
	OUT



Applications



Dimensions (Units: mm)



Ordering Information

ECAT-2610 CR	EtherCAT SubDevice to Modbus RTU Main Device Gateway (RoHS)
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