TS-EC-1-COM Communication Kit
（EtherCAT Supported）

This kit is an evaluation platform for software and system development of Renesas Electronics' industrial Ethernet communication LSI (EC-1) supporting EtherCAT.

Features

- The protocol to support is EtherCAT.
- Evaluation of various interfaces is possible.
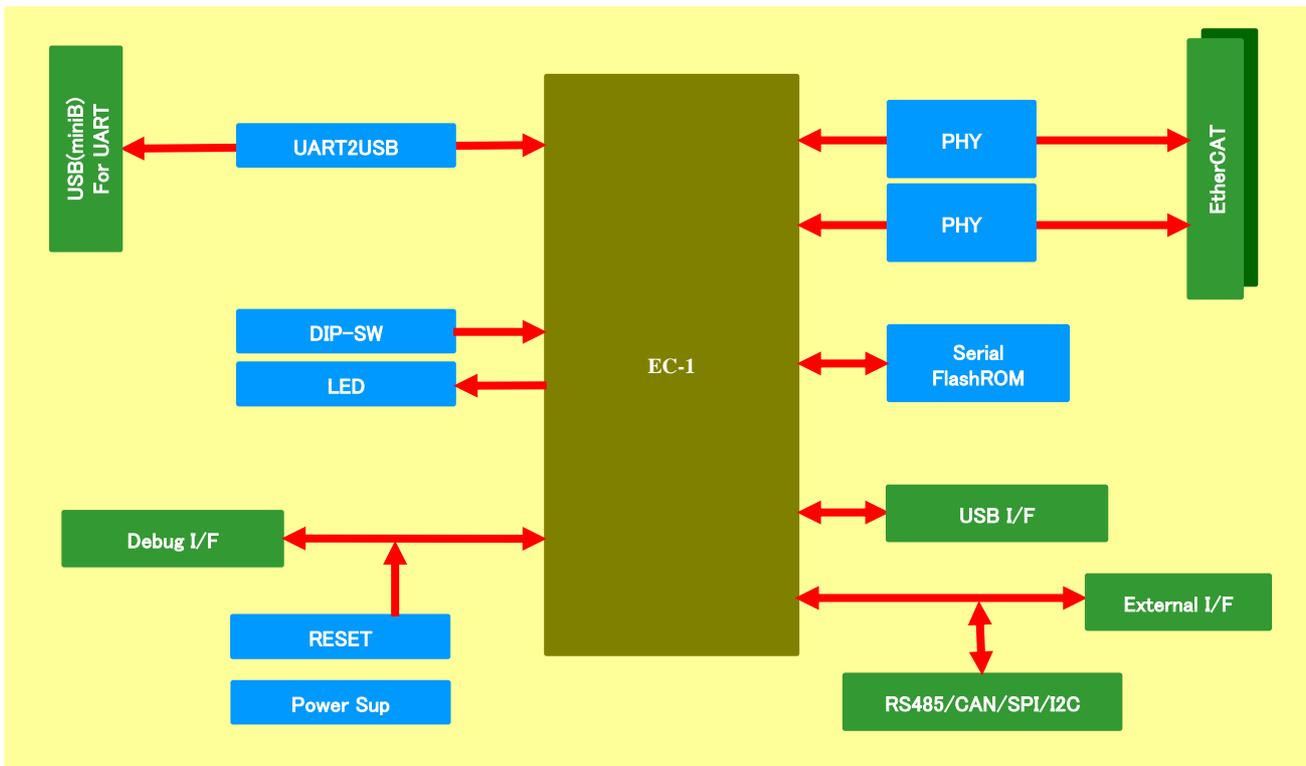 (CAN, RS-485, I2C,SPI,UART(USB),USB)

Specifications

List item	Spec
Product Name	TS-EC-1-COM
On-Board LSI	Renesas Electronics System LSI R-IN32M3-EC Note 1 - ARM Cortex™-R4F, 32-bit RISC CPU - FPU - Operating frequency: 150MHz - 10Base-T/100Base-TX/1000Base-T EtherMAC
Embedded memory	Flash memory (Serial): 32M bits
Interface	RJ45(EtherCAT), USB, UART(USB)
Expansion interface (Connector not mounting)	RS485, CAN, I2C, SPI
Debug interface	20-pin half-pitch connector
Supported emulators	IAR Systems:I-jet
Power supply	USB electricity supply 5.0V
Operating ambient temperature	0 ～ +50℃
Dimensions	W83mm × D74mm × H17mm

Note 1. For more details on the EC-1 LSI, refer to the related documents available from Renesas Electronics.

-All the product name and the service names of these documents are a trademark vested in each owner or registered trademarks.
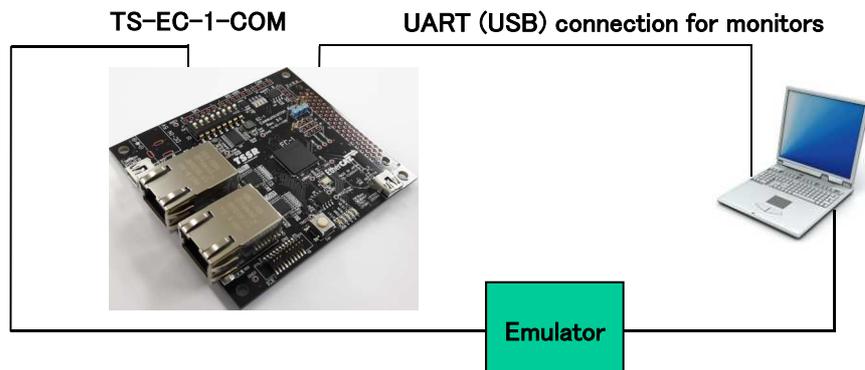
Board Configuration

USB(miniB) For UART — UART2USB — EC-1

PHY — EtherCAT
PHY — EtherCAT

DIP-SW — EC-1
LED — EC-1

Serial FlashROM

Debug I/F — EC-1
RESET
Power Sup

USB I/F
External I/F
RS485/CAN/SPI/I2C

Development Environment

・ Software development connects an emulator and is possible by the sample software you can get than a web of Renesas electronics company.

Manufacturer	Compiler	Debugger	Emulator
IAR Systems	EWARM	EWARM	I–jet
RENESAS	e² studio	e² studio	J–LINK

TS-EC-1-COM   UART (USB) connection for monitors

Emulator

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