

CODESYS PLC with IIoT Gateway



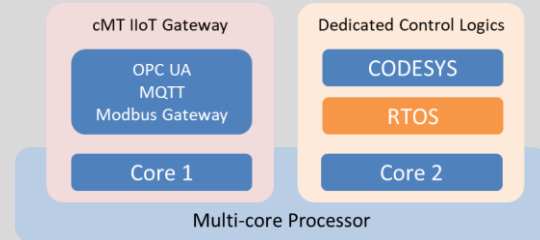
(iR series I/O modules sold separately.)

Feature

- Built-in CODESYS SoftPLC software, compliant with the IEC61131-3 standard
- CODESYS supports Modbus TCP/IP, EtherCAT, EtherNet/IP, and PROFINET industrial communication protocols
- Built-in 4GB Flash Memory and RTC
- SD card slot supports SD/SDHC cards
- Rich combination of iR Series Modules

Gateway

- COM2 / COM3 RS-485 2W supports MPI 187.5K
- Supports OPC UA Server/Client and MQTT
- Modbus TCP/IP Gateway



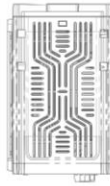
Memory	Flash	4 GB
	RAM	512 MB
	Data, Input, Output, Memory, Code	5 MB ^{*1}
	Retain area	32 KB (every minute) (Kept after reboots) ^{*1}
	Persistent area	32 KB (every minute) (Kept after downloads) ^{*1}
Processor	File system	12 MB ^{*1}
		Dual-core RISC
I/O Port	SD Card Slot	SD/SDHC
	Ethernet	Ethernet 1: 10/100/1000 Base-T x 1 Ethernet 2: 10/100 Base-T x 1
	COM Port	COM1 RS-232 2W, COM2 RS-485 2W/4W, COM3 RS-485 2W
	Local bus	iBus
	CAN Bus	N/A
CODESYS	Protocol	Modbus TCP/IP Master, EtherCAT Master, EtherNet/IP Scanner, PROFINET Controller ^{*2}
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Dissipation	Nominal 310mA@24VDC
	Current for Internal Bus	Max 2A@5VDC
	Current Consumption	550mA@5VDC
Specification	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC
	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	50 x 109 x 81 mm
Environment	Weight	Approx. 0.24 kg
	Mount	35 mm DIN rail mounting
	Protection Structure	IP20
	Storage Temperature	-20° ~ 70°C (-4° ~ 158°F)
	Operating Temperature	-10° ~ 50°C (14° ~ 122°F)
Certificate	Relative Humidity	10% ~ 90% (non-condensing)
	Altitude	3,000 m
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
	CE	CE marked
	UL	cULus Listed
Software	EasyBuilder Pro	V6.03.02 or later versions
	Weincloud	EasyAccess 2.0 (Optional)
	CODESYS®	V3.5 SP10 Patch 3 or later ^{*3}

*1. CODESYS Runtime 20240703 or later and Package 1.5.3.500 or later.

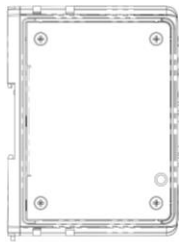
*2. CODESYS Runtime 20250121 or later and Package 1.5.3.510 or later support PROFINET Controller.

*3. CODESYS® is a trademark of CODESYS GmbH.

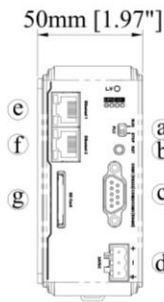
Dimensions



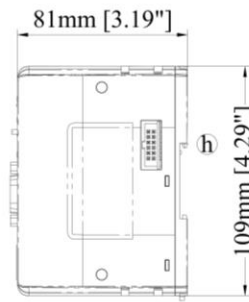
Top View



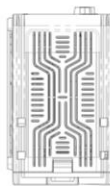
Side View



Front View



Side View



Bottom View

a	RUN/STOP switch	e	Ethernet 1
b	Reset Button	f	Ethernet 2
c	COM1: RS-232 2W, COM2: RS-485 2W/4W, COM3: RS-485 2W	g	SD Card Slot
d	Power Connector	h	Expansion Connector

Ordering Information

□ cMT-CTRL01:

CODESYS PLC with Gateway, 4GB flash memory, 512MB RAM on board

Optional:

□ **RZACEA020:** EasyAccess 2.0 Activation Card

Pin Assignment:

COM1 [RS232], COM2 / COM3 [RS485], 9 Pin, Male, D-sub

PIN#	COM1 [RS-232] 2W	COM2 [RS-485] 2W	COM3 [RS-485] 2W
1			Data+
2	RxD		
3	TxD		
4			Data-
5	GND		
6		Data+	Rx+
7		Data-	Rx-
8			Tx+
9			Tx-

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