CONPROSYS Series
Digital Input/Output, CAN Module ,BATT

CPS-MC341-DS2-911



* Specifications, color and design of the products are subject to change without notice.

This product is a M2M controller with isolated CAN, isolated RS-422A485, isolated digital input/output, and LAN interface. It is equipped with the ARM® Cortex® -A8 processor (600MHz) and the 512MB DDR3-SDRAM system memory. On-board NOR-FLASH is utilized for a booting device.

You can perform all processes on a web browser from the development to the operation. The functions such as Web monitoring of I/O information, alarm processing by I/O information, task divergence enable you to create a Cloud System at low cost and in a short time.

- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details in the document.
- * The information in the data sheets is as of October, 2022.

Hardware Features

Compact design

Compact design, $188.0(W) \times 78.0(D) \times 30.5(H)$, features flexibility in installation.

Adaptable to a temperature range between -20 and +60°C

The product is capable of operating in the temperature between -20 and $+60^{\circ}$ C. It can be installed in the various environments.

Ethernet Hub Function within

Use the product as Ethernet Hub so that you can connect devices in the daisy-chain.

A powerful running platform without fan

The product contains the ARM $\$ Cortex $\$ -A8 processor (600MHz) and the DDR3 512MB system memory.

Decrease malfunctions or damages by bus isolation and surge protection. (the RS-422A/485, digital input/output, CAN)

Electrical isolation between the RS-422A/485 and the CPU, between the digital input/output and CPU, as well as between CAN and CPU can block electrical noise flow. Moreover, the surge protection elements are used for signal line and on top of that, the RS-422A/485 is protected with the communication IC that can withstand $\pm 70 \, \text{V}$ input voltage, which reduces malfunctions or damages by surge.

Capable of adapting a wide-range power (12-24VDC)

The product is capable of dealing with a wide range of power in the differing environments.

Power connector also has a FG terminal.

Easy installation with screws or on DIN rail

This product can be installed on the wall with screws or on DIN rail with simple mounting.

Installation with two pieces of terminal support

The terminal connector can be removed without a screwdriver. Even when a malfunction occurs, this product can be replaced in a short length of time.

Equipped with LED for an operation check

The product has LED for an operation check, which helps you visually confirm the communication status of each interface.

Choice of a battery with a longer life.

With a choice of a long-life battery, the Contec is creating longer lasting products.

Software Features

Measurement and Upload

The product measures data with an external sensor and uploads them to the Cloud server.

Web Monitoring

The product contains a Web server. Even with the PC located remotely, I/O information can be monitored and updated through a Web browser. On the monitoring screen, the standard GUI parts (graphic, slider, button, etc.) can be freely arranged.

All operations including monitoring layout, making relations with I/O information, can be achieved through a Web browser.

Web Task Script

By combining icons such as arithmetic operations, conditional branching, data outputting, you can set up the executions or its processes like drawing them in the flowchart. All operations can be completed through a Web browser.

Message Communication Function

With the RS-422A/RS-485 or the Ethernet device (TCP/UDP), up to 10 links can be set to send or receive messages.

Message communication can be accomplished from Web task script.

Packing List

Product [CPS-MC341-DS2-911] ...1

Product Guide ... 1

Warranty Certificate ...1

Serial Number Label ...1

3-pin Connector (Power) ...1

5-pin Connector (RS-422A/485) ...1

10-pin Connector (Digital) ...2

List of Option

DIN rail mounting power supply

CPS-PWD-15AW12-01: DIN rail mounting power supply 15[w]

(Input: 100 - 240VAC, output: 12VDC 1.3 A)

SD card

SD-4GB-A: SD card 4GB

Magnet

CPS-MAG01-4: Magnets for installation (Four Piece Set)

* Visit the Contec website for the latest optional products.



Specifications

Specifications				
	Item	CPS-MC341-DS2-911		
CPU		ARM Cortex-A8 600MHz		
Memory		On Board 512MB DDR3 SDRAM		
ROM	T	On-Board 32MB NOR Flash for OS		
LAN	Transmission standard	10BASE-T/100BASE-TX		
	The number of channels	2		
	Connector	RJ-45 Connector		
	LED	Speed (Yellow), Link/Act (Green)		
RS-422A/485	Transmission scheme	Asynchronous serial transmission (Full Duplex/Half Duplex)		
	The number of channels	1		
	Isolation/Resistance	Bus Isolation/500VDC		
	Baud Rate	300bps - 115.2kbps		
	Data length	5, 6, 7, 8 bit 1, 1.5, 2 stopbit		
	Parity check	Even, Odd, Non-parity		
	Connector	2-piece 3.5mm pitch 5-pin terminal (TX+, TX-, RX+, RX-, SG)		
	Applicable wire	AWG28 - 16		
	LED	Transmission (Yellow), Reception (Yellow)		
	Switch	DIP Switch (Full Duplex /Half Duplex, Terminator (ON/OFF))		
	Surge protection element	Interactive TVS diode		
	each signal - SG	Stand off voltage: ±13V, Peak pulse power: 400W(1msec)		
	Surge protection element SG - FG	Gas discharge tube arrester Discharge voltage: ±300V, impulse current tolerance:		
	30-10	2000A(8/20µsec, 10 times)		
SD card slot	Standard	SD standard follow		
	Connector	SD memory card slot		
	LED	Read/Write (Yellow)		
CAN	CAN specification	CAN2.0A/B		
	Speed	10bps - 1Mbps		
	Isolation/Resistance	Isolation		
	The number of channels	1		
	Connector	9-pin D-SUB connector (Male)		
	LED	CAN A (Yellow)		
Digital input	Input type	Opto-coupler isolation input (Compatible with current sink output) (negative logic) *1		
		capa, (regarre region :		
	Isolation/Resistance	Onto-counter isolation /1000V		
	Isolation/Resistance Open circuit impedance	Opto-coupler isolation /1000V		
	Open circuit impedance	10kΩ and more		
	Open circuit impedance Short circuit impedance	, ,		
	Open circuit impedance Short circuit impedance Input resistance	10kΩ and more $500Ω \text{ or less}$ 3.3kΩ		
	Open circuit impedance Short circuit impedance	$10k\Omega$ and more 500Ω or less		
	Open circuit impedance Short circuit impedance Input resistance Response time	$10k\Omega \text{ and more}$ $500\Omega \text{ or less}$ $3.3k\Omega$ Within 200µsec $8 \text{ interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge}$		
	Open circuit impedance Short circuit impedance Input resistance Response time	$10k\Omega \text{ and more}$ $500\Omega \text{ or less}$ $3.3k\Omega$ Within 200µsec 8 interrupt input signals are arranged into a single output of		
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	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels	$10k\Omega \text{ and more} \\ 500\Omega \text{ or less} \\ 3.3k\Omega \\ \text{Within 200µsec} \\ 8 \text{ interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (I-IIGH-to-I-DW transition) or rising edge (I-DW-to-HIGH transition), (setting can be done by software)} \\ 8 \\ DIO-DI7 (Yellow) \\ 2-piece 3.5mm pitch 10-pin terminal$		
	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector	10kΩ and more 500Ω or less 3.3kΩ Within 200μsec 8 interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LCW-to-HIGH transition), (setting can be done by software) 8 DI0 – DI7 (Yellow) 2-piece 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C)		
Digital output	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector Applicable wire	10kΩ and more 500Ω or less 3.3kΩ Within 200μsec 8 interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition), (setting can be done by software) 8 DI0 – DI7 (Yellow) 2-piece 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C) AWG28 – 16		
Digital output	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector Applicable wire Output type	$10k\Omega \text{ and more} \\ 500\Omega \text{ or less} \\ 3.3k\Omega \\ \text{Within 200µsec} \\ 8 \text{ interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition), (setting can be done by software)} \\ 8 \\ DIO-DI7 (Yellow) \\ 2-pice 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C) \\ AWG28-16 \\ Open corrector output (Current sink type) (negative logic) *1$		
Digital output	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector Applicable wire Output type Isolation/Resistance	10kΩ and more 500Ω or less 3.3kΩ Within 200μsec 8 interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition), (setting can be done by software) 8 DIO – DI7 (Yellow) 2-piece 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C) AWG28 – 16 Open corrector output (Current sink type) (negative logic) *1 Opto-coupler Isolation/1000V		
Digital output	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector Applicable wire Output type	$10k\Omega \text{ and more} \\ 500\Omega \text{ or less} \\ 3.3k\Omega \\ \text{Within 200µsec} \\ 8 \text{ interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition), (setting can be done by software)} \\ 8 \\ DIO-DI7 (Yellow) \\ 2-pice 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C) \\ AWG28-16 \\ Open corrector output (Current sink type) (negative logic) *1$		
Digital output	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector Applicable wire Output type Isolation/Resistance Maximum Output Voltage / Current Residual Voltage with	10kΩ and more 500Ω or less 3.3kΩ Within 200μsec 8 interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition), (setting can be done by software) 8 DI0 – DI7 (Yellow) 2-piece 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C) AWG28 – 16 Open corrector output (Current sink type) (negative logic) *1 Opto-coupler Isolation/1000V 24V/100mA		
Digital output	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector Applicable wire Output type Isolation/Resistance Maximum Output Voltage / Current Residual Voltage with Output ON	10kΩ and more 500Ω or less 3.3kΩ Within 200μsec 8 interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition), (setting can be done by software) 8 DIO – DI7 (Yellow) 2-piece 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C) AWG28 – 16 Open corrector output (Current sink type) (negative logic) *1 Opto-coupler Isolation/1000V 24V/100mA		
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LED Switch	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector Applicable wire Output type Isolation/Resistance Maximum Output Voltage / Current Residual Voltage with Output ON Response time The number of channels LED Connector	10kΩ and more 500Ω or less 3.3kΩ Within 200µsec 8 interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition). (setting can be done by software) 8 DIO – DI7 (Yellow) 2-piece 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C) AWG28 – 16 Open corrector output (Current sink type) (negative logic) *1 Opto-coupler Isolation/1000V 24V/100mA 0.5V or less (Output current <=50mA), 1.0V or less (Output current <=100mA) Within 200µs 8 DOO-DO7(Yellow) 2 pieces 3.5mm pitch 3-pin terminal (MCOM, DO0, DO1, DO2, DO3 DO4, DO5, DO6, DO7, N.C) AWG28 - 16 Power (Green)/Status 1 (Green)/Status 2 (Red) Reset SW, Shutdown SW, Switching for Full Duplex/Half Duplex		
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LED Switch	Open circuit impedance Short circuit impedance Input resistance Response time Interrupt The number of channels LED Connector Applicable wire Output type Isolation/Resistance Maximum Output Voltage / Current Residual Voltage with Output ON Response time The number of channels LED Connector Applicable wire	10kΩ and more 500Ω or less 3.3kΩ Within 200μsec 8 interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition). (setting can be done by software) 8 DIO – DI7 (Yellow) 2-piece 3.5mm pitch 10-pin terminal (MCOM, DI0, DI1, DI2, DI3 DI4, DI5, DI6, DI7, N.C) AWG28 – 16 Open corrector output (Current sink type) (negative logic) *1 Opto-coupler Isolation/1000V 24V/100mA 0.5V or less (Output current <= 50mA), 1.0V or less (Output current <= 100mA) Within 200μs 8 DOO-DO7(Yellow) 2 pieces 3.5mm pitch 3-pin terminal (MCOM, DO0, DO1, DO2, DO3 DO4, DO5, DO6, DO7, N.C) AWG28 - 16 Power (Green)/Status 1 (Green)/Status 2 (Red) Reset SW, Shutdown SW, Switching for Full Duplex/Half Duplex RTC built-in (battery equipped)		

ltem		CPS-MC341-DS2-911
	Connector	2-piece 3.5mm pitch 3-pin terminal (V+, V-, FG)
	Applicable wire	AWG24 - 16
	Surge protection element V+ - V-, V FG	Interactive TVS diode Stand off voltage : ±30V, Peak pulse power : 400W(1msec)
Physical Dimensions (mm)		188.0(W)×78.0(D)×30.5(H) (No projection included)
Weight		300g
Installation method		Quick mounting on the 35mm DIN rail, Mounting on the wall using the screws *3
OS		Linux kernel 3.2

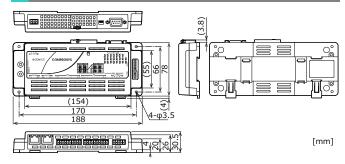
- $^{\star}1$ Data 0 corresponds to High level and Data 1 corresponds to Low level.
- *2 Use power cable within 3meters.
 *3 Commercial screws are required (fit into φ3.5 hole).

Installation Environment Requirements

Installation Environment Requirements				
	Item	Description		
Operating ambient temperature		-20 - +60°C		
Operating ambient humidity		10 - 90%RH (No condensation)		
Non-operating ambient temperature		-20 - +60°C		
Non-operating ambient humidity		10 - 90%RH (No condensation)		
Floating dust particles		Not to be excessive		
Corrosive gases		None		
Line-noise resistance	Line noise	AC Line/±2kV*4 Signal Line/±1kV(IEC61000-4-4 Level 3, EN61000-4-4 Level 3)		
	Static electricity resistance	Touch /±4kV(IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Air /±8kV(IEC61000-4-2 Level 3, EN61000-4-2 Level 3)		
Vibration resistance	Sweep resistance	10 - 57Hz *5 / semi-amplitude vibration 0.15mm, 57 - 150Hz/2/0G 40minutes each in X, Y, and Z directions (JIS C60068-2-6- compliant, IEC60068-2-6-compliant)		
Shock resistance		15G half-sine shock for 11ms in X, Y, and Z directions (JIS C 60068-2-27 -compliant, IEC 60068-2-27 -compliant)		
Grounding		Class D grounding (previous class 3 grounding), SG-FG/ non-conduction		
Standard		VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA, UL/c-UL		

- *4 When you use the CPS-PWD-15AW12-01 (optional product)
- $^{\star}5$ When you use an optional power product 10-55Hz (See the manual of optional power product for details)

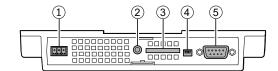
Physical Dimensions

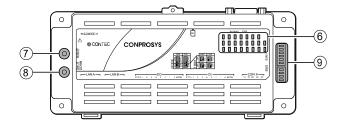


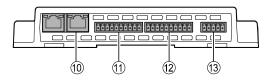
CPS-MC341-DS2-911



Component Name







No.	Name	Function
1	Power Connector	This is a connector for power. Use the 3-pin connector included in the package.
2	Debug Connector	Do not use this.
3	SD Card Slot	This a slot for inserting SD card to store data.
4	DIP Switch for CAN	This is a DIP switch for CAN setting.
5	CAN Port	This is a CAN port (Male).
6	LED Indicator	This indicates status of the product.
7	Reset Switch	This resets the product.
8	Shut-Down Switch	This shuts down the product.
9	DIP Switch	This is used for system setup and RS-422A/485 setup.
10	LAN Port	This is a connector for LAN.
11	Digital Output	This is a connector for digital output. (Use the 10-pin connector included in the package)
12	Digital Input	This is a connector for digital input. (Use the 10-pin connector included in the package)
13	RS-422A/485 Connector	This is a connector for RS-422A/485 communication. (Use the 5-pin connector included in the package)