





Technology for a better life







PRODUCTS CATALOG

for Global Market



Contec Global Network

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Technology for a better life

Technology for a better life

about CONTEC

Improving Lives Around the World Through Contec Technologies

Contec established its expertise in highly reliable technology with electronic devices for factory automation. Leveraging this knowledge and proficiency, we have expanded into environment & energy, healthcare, and digital signage industries.

We strive to improve your daily life through creative technologies and products.









Our Management Philosophy

Contribute to society with creative technology and products

Corporate Slogan

Technology for a better life

Product Lineup

Edge Computing

- Embedded Computers

- Industrial Computers
- All-in-One Computers

M2M / IoT

- CONPROSYS
- Remote I/O
- Wireless I/O

- Industrial LAN and Wireless

Solutions and Services

• Integration Support Services















about CONTEC about CONTEC

Edge Computing





from P.**05**

from P.**07**

from P.**09**

from P.**16**

from P.**17**

from P.**19**

from P.29 from P.**30**

from P.**31**

from P.**33**

from P.**35**

from P.**43**

from P.**49**

from P.**51**

from P.**52**

from P.**65**

from P.**65**

Embedded Computers

• Fanless Embedded Computers •Embedded Computers

•Edge Al Computers

Industrial Motherboards

Industrial Computers

•FA Computers

•Business Computers

Custom Computers

All-in-One Computers

Displays

Tablets

from P.**51**

M2M / IoT



Industrial IoT

•CONPROSYS Series

Remote I/O

•CONPROSYS nano Series

•Wireless I/O

•IO-Link

from P.**67** from P.**69**

Raspberry Pi

Data Acquisition (DAQ), **Measurement and Control**





from P.**71**

from P.**75**

from P.**77** from P.**79**

from P.**79**

from P.**80**

from P.**81** from P.**83**



from P.**73**

Analog I/O Digital I/O

Counters

Motion Controllers

Serial Communications

GPIB Communications

Software

Cables

from P.**85**

Communication, **Industrial LAN and Wireless**





Network Products

from P.**88**

from P.**87**

Corporate Network

from P.**90**

03

PRODUCT CATALOG

for Global Market Ver.4

CONTENTS

Edge Computing

Proprietary Development Technologies Designed for a Wide Spectrum of Industries

Contec designs, develops and manufactures highly reliable, long-life and rugged industrial computers. Leveraging our expertise in the Factory Automation (FA) industry has allowed us to expand our business and quality product offerings to the growing Information and Communication Technology fields, including digital signage, healthcare, and energy.



CONTEC Craftsmanship

Contec's comprehensive quality assurance framework defines specific quality requirements to deliver unsurpassable reliability without sacrificing performance or usability. For example, our products must pass more than 500 checkpoints, developed over 30 years product development experience. At Contec, quality is the synonymous with reliability. This means much more to us than simply catalog specs or performance figures. We know that for our industrial customers, reliability is the single most important factor when choosing their technology.

True Performance Indicator: 0 to 50 °C Guaranteed

Pitfall of "Operating Temperature" Indication

Operating temperature is one of the product performance indicators. Did you know that there are no uniform testing standards for industrial technology? Each manufacturer establishes its own performance test procedures and standards. You cannot see actual product performance differences by just checking the value range of the performance indication in basic specifications. In Contec's standard, indicated values are those measured in no-wind condition, which is a very severe environmental condition. At Contec, we believe that performance standards are insignificant unless they are rigorously tested in the most extreme industrial conditions.



0 to 60 °C

Quality Begins with Parts Selection

An industrial computer is composed of many electrical components, such as a CPU. Proper selection of high quality components is a decisive factor for the reliability of the final product. Parts must be meticulously selected based a deep understanding of how the product will be used and the conditions under which it must perform. When it comes to the quality and reliability of industrial box computers, we are meticulous in our attention to detail at every stage of part selection:

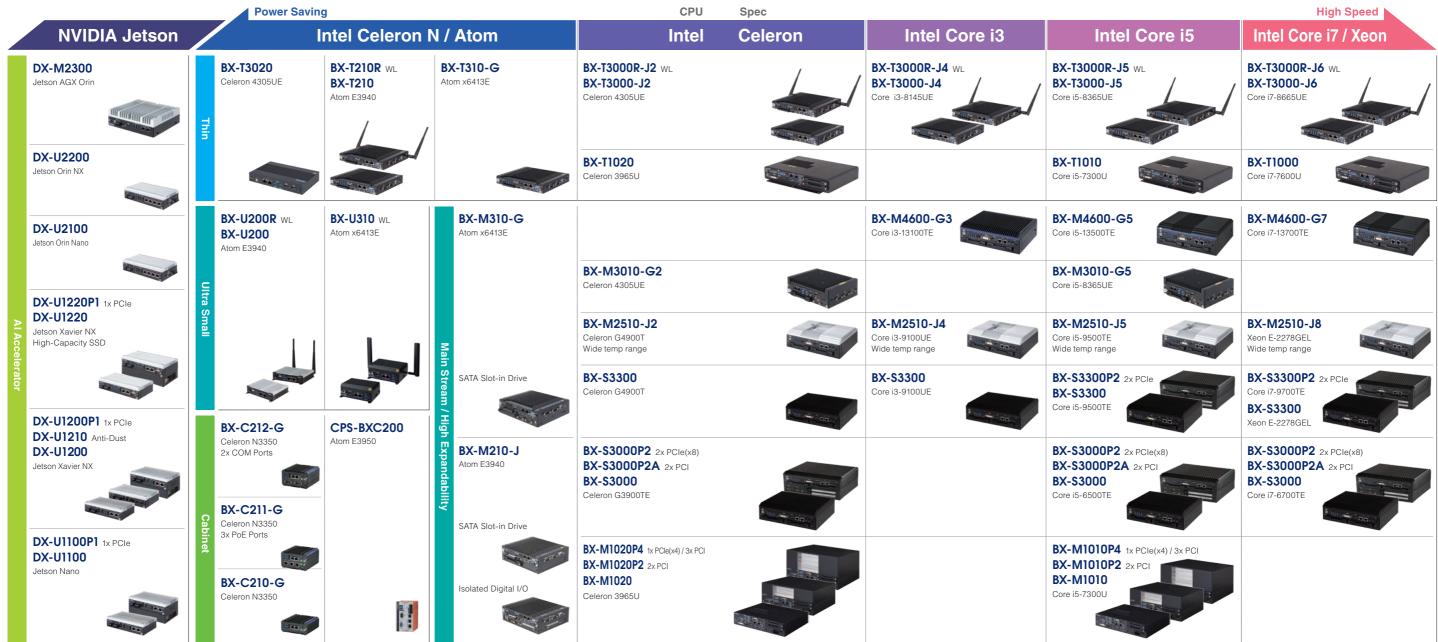


- CPU and chipsets for embedded devices
- High performance battery with 10-year life cycle
- Highly reliable capacitors for each unit

Embedded Computers

Embedded Computers

Embedded Computers BX Series



WL: Wireless LAN

Embedded Computers EPC Series



High power / Cooling fan type



Embedded Computers

BX-T3000 / BX-T3000R Series

















8th Gen. (Whiskey Lake-U)

Core i7-8665UE Core i5-8365UE Core i3-8145UE Celeron 4305UE

Ultra-compact design about as large as A5 size contributes to space-saving

Rich interfaces for easy connection to various peripherals

Operation capable in a wide temperature range -20 to 60°C

"Power failure protection system" features power-off without OS shutdown

High-security design contributes to a highly reliable system

Contec customized BIOS provides useful utility

BX-T3020 Series











Features

Space-saving PC that contributes to the miniaturization of

Power failure protection system" features power-off without OS shutdown

High-security design contributes to a highly reliable system

Contec customized BIOS provides useful utility

Helps reduce running costs and energy consumption

Major types of peripherals are supported with rich

BX-T1000 / BX-T1010 / BX-T1020 Series











7th Gen. (Kaby Lake-U)

8th Gen. (Whiskey Lake-U)

Celeron 4305UE

Core i7-7600U Core i5-7300U Celeron 3965U

Features

7th Gen. Core™ i7 processor adopted

A wide range of power supplies (10.8 - 31.2VDC) supported

Major types of peripherals are supported with rich

With retention fitting and cable clamp to stay trouble-free

"Power failure protection system" features power-off without

Safety design required for embedded applications

BX-T310-G Series









Embedded Computers



Features

Embedded Intel Atom® x6413E processor adopted

Slim A5 size design reduces maintenance work

Wide range DC input and power management

Major types of peripherals are supported with rich

Dual Gigabit LAN ports and M.2 slot

BX-T210 / BX-T210R Series

















5th Gen. Atom (Apollo Lake)

Atom E3940

7th Gen. Atom (Elkhart Lake)

Atom x6413E

Extremely compact space-saving PC with an A5 paper

Operation capable in a wide temperature range -20 to 70°C (-4 to 158°F)

l "Power failure protection system" features power-off without

High-security design contributes to a highly reliable system

Contec customized BIOS provides useful utility

Rich variety of interfaces for easy connection to various peripheral devices

Embedded Computers

BX-U310 Series













7th Gen. Atom (Elkhart Lake)

Atom x6413E





Palm-sized ultra-compact PC

Operation capable in a wide temperature range -10 to 60°C

Power failure protection system" features power-off without OS shutdown

High-security design contributes to a highly reliable system

Contec customized BIOS provides useful utility

Helps reduce running costs and energy consumption

BX-U200 / BX-U200R Series













5th Gen. Atom (Apollo Lake)

Atom E3940

Adopted the Intel Atom® x5-E3940 processor that reduces running costs and energy usage

An extremely compact computer with an installation area the size of just two business cards that contributes to the miniaturization of equipment

Operation capable in a wide temperature range -30 to 60°C

Power supply/charging and video output with a single cable

Compatible with Trellix white listing anti-virus software

Wireless connections to various devices via wireless LAN

CPS-BXC200 Series









S C € FC ROHS



Embedded Computers



5th Gen. Atom (Apollo Lake)

Atom E3950

Features

Secured IoT device for edge computing

Compatible with Trellix white listing anti-virus software

Three Gigabit LAN ports interconnect differing network

I/O expansion modules with the same API functions as PCI Express, PCI, and USB bus products

Operation capable in a wide temperature range -20 to 70°C

I Slitless and fanless design that reduces maintenance and inspection works

BX-C210-G / BX-C211-G / BX-C212-G Series







5th Gen. Atom (Apollo Lake) Celeron N3350

Features

Palm-sized small form factor

12 to 30 VDC ±20% wide voltage power input

64GB onboard eMMC 5.0 storage

Fanless and Cableless design reduce maintenance work

Rich I/O combination to fulfill customers in various needs

Extra 3x PoE ports for customers with camera or wireless needs [BX-C211-G]

Additional 2x COM and expansion slots for different solutions [BX-C212-G]

Embedded Computers

BX-M4600-G Series



13th Gen. (Raptor Lake-S)

Core i7-13700TE

Core i3-13100TE













Core i5-13500TE



Features

All new Intel® 13th Raptor Lake-S platform

CPU built-in high-performance graphics

Adopt removable storage

Extend peripherals freely rich interface

Features wide input voltage range and multiple circuit protection design

BX-S3300 / BX-S3300P2 Series













9th Gen. (Coffee Lake R-S)

Xeon E-2278GEL Core i7-9700TE Core i5-9500TE Core i3-9100TE Celeron G4900T

Features

Compatible with Intel® 9th Coffee Lake-Refresh platform

CPU built-in high-performance graphics

Adopt removable storage

Extend peripherals freely rich interface

Two expansion slots to hold PCI bus cards [BX-S3300P2]

BX-M2510 Series











9th Gen. (Coffee Lake R-S)

Xeon E-2278GEL	Core i5-9500TE
Core i3-9100TE	Celeron G4900T

Features

9th Gen. Xeon, Core™ i5/i3, Celeron processor adopted

Operation capable in a wide temperature range -10 to 60°C

"Power failure protection system" features power-off without

High-security design contributes to a highly reliable system

Contec customized BIOS provides useful utility

Major types of peripherals are supported with rich

BX-M3010 Series

8th Gen. (Whiskey Lake-U)

Core i5-7300U

7th Gen. (Kaby Lake-U)

Celeron 3965U

Core i5-8365UE Celeron 4305UE



Features

Improved CPU performance by Whiskey Lake-U processor

Enhanced graphics performance

Dual Gigabit LAN ports and M.2 slot

Major types of peripherals are supported with rich

2.5" removable drive bay for easy maintenance

BX-M1010 / BX-M1010P2 / BX-M1010P4 Series











Embedded Computers

CE FC LK ROHS

Features

7th Gen. Core™ i5 processor adopted

Fanless design reduces maintenance work

Major types of peripherals are supported with rich

The attachment fitting and cable ties prevent problems caused by cable disconnections

Safety design required for embedded applications

Two expansion slots to hold PCI bus cards [BX-M1010P2]

One PCI Express (x4) slot and three PCI slots are equipped

BX-M1020 / BX-M1020P2 / BX-M1020P4 Series













7th Gen. Celeron processor adopted

Fanless design reduces maintenance work

Major types of peripherals are supported with rich

The attachment fitting and cable ties prevent problems caused by cable disconnections

Safety design required for embedded applications

Two expansion slots to hold PCI bus cards [BX-M1020P2]

One PCI Express (x4) slot and three PCI slots are equipped

Embedded Computers

BX-M310-G Series











7th Gen. Atom (Elkhart Lake)

Atom x6413E

Features

Embedded Intel Atom® x6413E processor adopted

Fanless design reduces maintenance work

Wide range DC input and power management

Major types of peripherals are supported with rich

Dual Gigabit LAN ports and M.2 slot

BX-M210(SATA) Series







CE ROHS CAMPBiant





5th Gen. Atom (Apollo Lake)

Atom E3940

Features

Extremely compact space-saving PC with an A5 paper

Equipped with a rich interface with a slot-in 2.5-inch SATA

"Power failure protection system" features power-off without

Contec customized BIOS provides useful utility

High-security design contributes to a highly reliable system

Operation capable in a wide temperature range -20 to 60°C



Features

digital inputs / 32 outputs

Contec customized BIOS provides useful utility

High-security design contributes to a highly reliable system

EPC-C5000 Series





Compatible with Intel® Xeon® W / Core™ processor series Comet Lake

CE EE EE

CPU built-in high-performance graphics

NVIDIA GPU card available

Extend peripherals freely. Rich interface

Equipped with expansion slots that can house PCI Express (x16) cards

"Power failure protection system" features power-off without OS shutdown

EPC-4000 / EPC-4000P2 / EPC-4000P4 Series



* Other CPU options are available. Visit the Contec website for more information.



Core i5-8500T

8th Gen. (Coffee Lake-S)

Core i7-8700T

10th Gen. (Comet Lake-S)

Xeon W-1290TE Core i7-10700TE

Core i5-10500TE | Core i3-10100TE











Embedded Computers

Features

Support for the Coffee Lake-S Intel® Core™ processor series Freely expandable peripherals and a rich variety of

Highly noise-resistant design with separated FG and SG

"Power failure protection system" features power-off without

Custom BIOS supporting real-time OS

PCI Express x8 high speed expansion slot [EPC-4000P2]

PCI Express x4 high speed expansion slot [EPC-4000P4]

BX-M210(GPIO) Series

5th Gen. Atom (Apollo Lake)

Atom E3940



Extremely compact space-saving PC with an A5 paper

Equipped with abundant interfaces such as 32 isolated

"Power failure protection system" features power-off without

Operation capable in a wide temperature range -20 to 60°C

Embedded Computers

DX-M2300 Series













Features

Edge Al accelerator equipped with NVIDIA® Jetson AGX Orin

Standard-equipped with NVMe storage

Long-term supply and maintenance

Highly reliable and long-life components

Two Gigabit LAN ports for alternating connections between different network layers

Operation capable in a wide temperature range -20 to 60°C (-4 to 140°F)

Jetson AGX Orin

Jetson Orin NX

DX-U2200 / DX-U2100 Series













Jetson Orin Nano

Features

I Edge AI accelerator powered by NVIDIA® Jetson Orin™ NX

Edge AI accelerator powered by NVIDIA® Jetson Orin Nano™ [DX-U2100]

Built-in NVMe storage

4G LTE Cat.4 communication model can be selected

Four Gigabit LAN ports for alternating connections between different network layers

Flexible installation

Operation capable in a wide temperature range -20 to 60°C

DX-U1220 / DX-U1220P1 Series



Jetson Xavier NX

■ Edge AI accelerator equipped with NVIDIA® Jetson Xavier™

Equipped standard NVMe 256GB storage

Equipped with various I/F such as USB 3.2 Gen2 4 ports

Two Gigabit LAN ports for alternating connections between different network layers

Flexible installation

Operation capable in a wide temperature range -20 to 60°C

Equipped with 1x Low Profile PCI Express(x1) slot [DX-U1220P1]

DX-U1200 / DX-U1210 / DX-U1200P1 Series









Embedded Computers





Edge AI accelerator equipped with NVIDIA® Jetson Xavier™

Long-term supply and maintenance

Highly reliable and long-life components

Two Gigabit LAN ports for alternating connections between different network layers

Operation capable in a wide temperature range -20 to 60°C (-4 to 140°F)

Simple dustproof model make it easily possible to install on

Equipped with 1x Low Profile PCI Express(x1) slot

DX-U1100 / DX-U1100P1











Jetson Nano

Jetson Xavier NX

Edge AI accelerator equipped with NVIDIA® Jetson Nano™

Long-term supply and maintenance

Highly reliable and long-life components

Two Gigabit LAN ports for alternating connections between different network layers

Flexible installation

Supports a wide range of temperatures with operations guaranteed from -20 to 60°C

Equipped with 1x Low Profile PCI Express(x1) slot

Industrial Motherboards Industrial Motherboards

Industrial Motherboards and SBCs

Scalable / S processor		Skylake-S	Coffee Lake-S Coffee Lake R-S	Comet Lake-S	Ice Lake-SP	Raptor Lake-S Alder Lake-S
Atom / U / P processor	Apollo Lake	Kaby Lake-U	Whiskey Lake-U			Raptor Lake-P Tiger Lake UP3 Elkhart Lake
Extended-ATX ATX			GMB-AQ3701-LLVA 8th / 9th Gen. Core i / Celeron + Q370 GMB-AC2460-LLVA Xeon / 8th / 9th Gen. Core i / Celeron + C246	Xeon / 10th Gen. Core i + W480E	GMB-EAC62100 3rd Gen. Xeon Scalable + C621A	GMB-AH61000 12th/13th Gen. Core i + H610
Micro-ATX			GMB-MQ37000 8th Gen. Core i / Celeron + Q370			GMB-MQ67000 12th / 13th Gen. Core I + Q670
Mini-ITX		SMB-C39U01-LLVA 7th Gen. Celeron SoC SMB-I73U01-LLVA 7th Gen. Core i SoC SMB-I76U01-LLVA 7th Gen. Core i SoC	GMB-IC24600 Xeon / 8, 9th Gen. Core i / Celeron + C246	GMB-IW48000 Xeon / 10th Gen. Core i + W480E		GMB-IQ67010 12th/13th Gen. Core i + Q670E GMB-IH61000 12th/13th Gen. Core i + H610 / H610E GMB-IRPL 13th Gen. Core i SoC GMB-IEHL210 7th Gen. Celeron SoC
3.5" Little Pico-ITX	GMB-L3APL300 Atom SoC		GMB-L3WHL400 8th Gen. Core i7-8665UE SoC GMB-L3WHL300 8th Gen. Core i5-8345UE SoC GMB-L3WHL200 8th Gen. Core i3-8165UE SoC			GMB-L3TGL 11th Gen. Core i GMB-PTGL 11th Gen. Core i
PICMG 1.3		GSPI-Q1700-LLVA 6th Gen. Core i	GSPI-Q3700-LLVA 8, 9th Gen. Core i	GSPI-Q4700-LLVA 10th Gen. Core i		

GMB-PTGL Series













Pico-ITX (2.5-inch)

11th Gen. (Tiger Lake UP3)

Features

Intel® 11th Gen. Core™ processor (Tiger Lake UP3 SoC)

Memory and storage options

Versatile connectivity

Versatile in various applications

Security by TPM2.0 & Wide range DC input

Industrial Motherboards Industrial Motherboards

GMB-L3TGL Series









3.5-inch

3.5-inch

8th Gen. (Whiskey Lake-U)

11th Gen. (Tiger Lake UP3)

Intel® 11th Gen. Core™ i3/i5/i7 processor (Tiger Lake UP3

Supported 2x DDR4-3200 SO-DIMM, up to 64GB

2x RJ-45 LAN port by 2.5GdE + 1GbE by internal

Equipped 1 x Full-sized Mini PCle, 1 x M.2 Key M (2280) and 1 x M.2 Key E (2230)

Supported triple-display, LVDS, HDMI, and DisplayPort (Internal Type C support DP only)

GSPI-Q4700-LLVA









PICMG 1.3

10th Gen. (Comet Lake-S)

Features

Intel® 10th Comet Lake-S platform

Multi-display supported

Dual Gigabit Ethernet

Extend peripherals freely with rich interfaces

GMB-L3WHL200/300/400









Features

Intel® 8th Gen. Core™ i3-8145UE processor (Whiskey Lake-U) [GMB-L3WHL200]

Intel® 8th Gen. Core™ i5-8365UE processor (Whiskey Lake-U) [GMB-L3WHL300]

Intel® 8th Gen. Core™ i7-8665UE processor (Whiskey Lake-U)

1 x DDR4-2400 Non-ECC SO-DIMM, up to 16 GB

2230 Key E Equipped

Triple-display, HDMI, DisplayPort, and LVDS Supported

GSPI-Q3700-LLVA









PICMG 1.3

9th Gen. (Coffee Lake R-S) 8th Gen. (Coffee Lake-S)

Support Intel® Core™ i3/i5/i7 / Pentium / Celeron processors (LGA1151)

Deliver up to 128GB maximum DDR4-2133 SO-DIMM on four sockets

Support multiple displays by DVI-I(DVI-D+VGA) and HDMI

Dual Gigabit Ethernet based on PCI express x1, high bandwidth I/O interface

Rich I/O connections such as four serial ports, USB 3.0, SATAIII ports

Support on board TPM2.0

GMB-L3APL300







3.5-inch

5th Gen. Atom (Apollo Lake)

Features

Compatible with Intel Atom® Apollo Lake platform

Multi-display supported

Dual Mini-PCle expansion slots

Extend peripherals freely with rich interfaces

GSPI-Q1700-LLVA









PICMG 1.3

7th Gen. (Kaby Lake-S) 6th Gen. (Skylake-S)

Features

Uses processors from the 6th and 7th Gen. of the Intel® Core[™] processor family

Support multiple displays by DVI-I(DVI-D+VGA) and HDMI

Rich variety of interfaces for freely expandable peripherals

Industrial Motherboards Industrial Motherboards

GMB-IQ67010



13th Gen. (Raptor Lake-S)

12th Gen. (Alder Lake-S)







CE FC UK ROHS

Features

Intel® 12th / 13th Gen. Alder Lake-S / Raptor Lake-S

Supports up to DDR5-4800 SO-DIMM Max 64GB (Non-

Dual display supported

Supports 4 x RJ45 Gigabit LAN ports

Equipped with rich interfaces

DC-In power range from 12 to 24VDC

GMB-IH61000



Mini-ITX

13th Gen. (Raptor Lake-S)

12th Gen. (Alder Lake-S)







CE FC UK ROHS





Features

Intel® 12th / 13th Alder Lake-S / Raptor Lake-S platform

Multi Display Supported

Triple Gigabit Ethernet

Extend peripherals freely with rich interfaces

Build-In TPM2.0

GMB-IRPL



Mini-ITX

13th Gen. (Raptor Lake-P)

Features

Intel® 13th Raptor Lake-P platform

Triple Gigabit Ethernet

Extend peripherals freely with rich interfaces

Supported Build-In TPM2.0

GMB-IW48000



Mini-ITX

10th Gen. (Comet Lake-S)

Features

Better performance and protection

Media & display features for premium 4K content support

CE FC ROHS

CE FC ROHS

Software RAID available

Expansion slot & extend peripherals with rich interfaces

Manageability at the edge

GMB-IC24600



Mini-ITX

9th Gen. (Coffee Lake R-S)

8th Gen. (Coffee Lake-S)

Features

Compatible with Intel® 9th Coffee Lake-Refresh platform

Multi-display Supported

Triple Gigabit Ethernet

Extend peripherals freely with rich interfaces

Support on board TPM2.0

GMB-IEHL210



Mini-ITX

7th Gen. Atom (Elkhart Lake)











Features

Intel® Elkhart Lake platform

Dual 2.5 Gbps LAN ports and M.2 support

Triple displays output support

Extend peripherals freely with rich interfaces

Industrial Motherboards Industrial Motherboards

SMB-C39U01-LLVA / -I73U01-LLVA / -I76U01-LLVA



Mini-ITX

7th Gen. (Kaby Lake-U)







Features

7th Gen. Kaby Lake-U processor adopted

M.2 slot realizes high-speed data transfer

Fanless design reduces maintenance work

A wide range of power supplies (10.8 to 31.2VDC)

Major types of peripherals are supported with rich

Celeron® 3965U processor [SMB-C39U01-LLVA]

Core™ i5-7300U processor [SMB-I73U01-LLVA]

Core™ i7-7600U processor [SMB-I76U01-LLVA]

GMB-MQ67000



Micro-ATX

13th Gen. (Raptor Lake-S)

12th Gen. (Alder Lake-S)









CE FC RoHS



Features

Intel® 12th Alder Lake-S / 13th Raptor Lake-S platform

Multi-display supported

Triple Gigabit Ethernet

Extend peripherals freely with rich interfaces

GMB-MQ37000



Micro-ATX

8th Gen. (Coffee Lake-S)

Support Intel® 8th Gen. Core™ processor (LGA1151)

Up to 64 GB maximum DDR4 2666 MHz non ECC U-DIMM on 4 sockets.

1 x PCle by 16 (Gen 3) , 2 x PCle by 4 (Gen 3) , 1 x PCl

6 x SATA 3.0 ports and 14 x USB Ports

3 x Giga LAN port with 1x Intel® I219LM and 2 x intel® I211AT

DVI-I + HDMI 1.4+ Display port 1.2 by I/O panel

GMB-AH61000



13th Gen. (Raptor Lake-S)

12th Gen. (Alder Lake-S)





Features

Intel® 12th / 13th Gen. Alder Lake-S / Raptor Lake-S

Multi-display supported

Dual Gigabit Ethernet by Intel® controller

Extend peripherals freely with rich interfaces

GMB-AQ47001



ATX

ATX

10th Gen. (Comet Lake-S)

Features

Intel® 10th Comet Lake-S platform

High expandability for Vision application

4 displays supported

Dual Gigabit Ethernet

GMB-AQ47000



10th Gen. (Comet Lake-S)





CE FC ROHS



Features

Intel® 10th Comet Lake-S platform

Multi-display supported

Dual Gigabit Ethernet

Extend peripherals freely with rich interfaces

Industrial Motherboards Industrial Motherboards

GMB-AW48000









ATX

10th Gen. (Comet Lake-S)

Features

High-end server grade performance and protection

Media & display features for Premium 4K content supports

Software RAID available

Rich I/O design for expansion slots & extend peripherals

Manageability at the edge

GMB-EAC62100



Extended-ATX

3rd Gen. Xeon Scalable (Ice Lake-SP)

Features

Compatible with Intel® Ice Lake-SP platform

HPC and GPU computing support

Adopt removable storage

BMC function

Support Windows 10 IoT Enterprise 2019 LTSC and Windows Server IoT 2019

CE FC PO ROHS

GMB-AQ3701-LLVA



ATX

9th Gen. (Coffee Lake R-S) 8th Gen. (Coffee Lake-S)



Features

Supports Intel® 8th / 9th Gen. Core™ desktop processors (LGA1151)

Up to 64 GB in 4 slots 288-pin UDIMM sockets

Supports dual channelDDR4 2400/2666 MHz ECC SDRAM

1 x PCle by 16, 3 x PCle by 4 + 3 x PCl slot

6x SATA 3.0 (6Gb/s) ports and 12x USB ports

Dual Giga LAN port with intel® I219LM and intel® I211AT

VGA + HDMI+ Display port by I/O panel

GMB-AC2460-LLVA



ATX

9th Gen. (Coffee Lake R-S) 8th Gen. (Coffee Lake-S)





CE FC ROHS



Supports Intel® 8th / 9th Gen. Core™ desktop processors

Up to 64 GB in 4 slots 288-pin UDIMM sockets

Supports dual channel DDR4 2400/2666 MHz ECC SDRAM

1 x PCle by 16, 3 x PCle by 4 + 3 x PCl slot

6x SATA 3.0 (6Gb/s) ports and 12x USB ports

Dual Giga LAN port with intel® I219LM and intel® I210AT

VGA + HDMI+ Display port by I/O panel

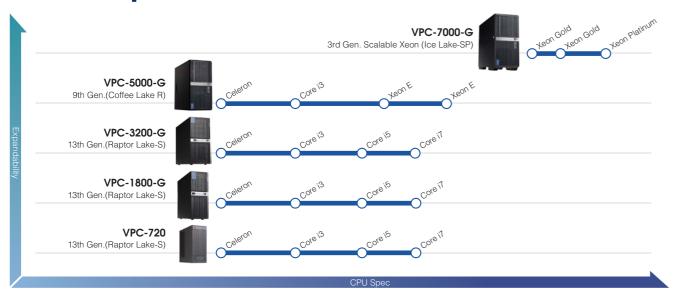


Industrial Computers

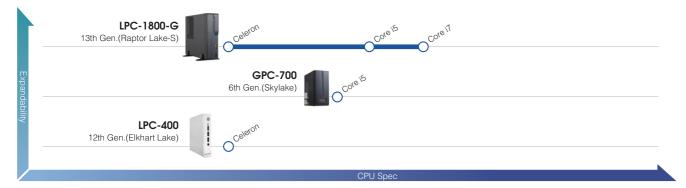
Industrial Computers

CE FC ROHS

FA Computers VPC Series



Business Computers LPC/GPC Series



Custom Computers Solution-ePC Series



VPC-7000-G Series



3rd Gen. Scalable Xeon (Ice Lake-SP)

Xeon Platinum 8352Y Xeon Gold 6354

Xeon Gold 6330

Features

High-end FA computer compatible with Intel® Xeon® Scalable processor

Supports GPU computing

Uses highly reliable and long-life parts on the premise of continuous operation for 24 hours

Achieves long-term supply and long-term maintenance

VPC-5000-G Series



9th Gen.(Coffee Lake R-S)

Xeon E-2278GE	Xeon E-2226GE
Core i3-9100F	Celeron G4900

Features

High performance FA computer with Xeon processor

Highly reliable and long life components based on 24-hour

Support Windows 10 IoT Enterprise LTSC and Windows

Long-term product availability and maintenance

VPC-3200-G Series



13th Gen.(Raptor Lake-S)

Core i7-13700TE Core i5-13500TE Core i3-13100TE Celeron G6900TE







FC VCI ROHS

Features

Intel® Core™ processor series Raptor Lake-S supported

High-performance graphics with CPU embedded type

Mirroring (RAID1) supported

Removable storage adopted

Expand your peripherals with various interfaces

Industrial Computers

VPC-1800-G Series



13th Gen.(Raptor Lake-S)

Core i7-13700TE Core i5-13500TE Core i3-13100TE Celeron G6900TE









Features

Intel® Core™ processor series Raptor Lake-S supported

High-performance graphics with CPU embedded type

Mirroring (RAID1) supported

Removable storage adopted

Expand your peripherals with various interfaces

The selection of expansion slots from 1x PCI-Express(x1), 2x PCI or 3x PCI

VPC-720 Series



13th Gen.(Raptor Lake-S)

Core i7-13700TE Core i5-13500TE Core i3-13100TE Celeron G6900TE













RoHS

Features

Supports Intel® Core™ processor series Rapter Lake-S

Compact size that can be installed in a small space

Adopts removable storage structure

Supports mirroring (RAID1)

Abundant interfaces for freely expanding peripheral devices

GPC-700 Series



6th Gen.(Skylake) Core i5-6500

Features

I Equipped with Powerful 6th Gen. Intel® Core™ processor for edge computing

3 independent Gigabit LAN ports to connect different network segments

Built-in GPU supports 4K resolution and output to three

Equipped with one expansion slot that can house Low Profile PCI Express(x16) card

Conforming to 21 global standards

Standard: VCCI Class B, FCC Class B, CE Marking (EMC Directive Class B, Low Voltage Directive, RoHS2 Directive, WEEE Directive), UKCA, CSA, NOM, IRAM, Ukr Sepro, INSM, IEC/ Israel 60950, CCC, KC Class A, BSMI, RCM, PSB, NRCS LOA, KS Compliance, PvoC, SONCAP, KVALITET, BIS

LPC-1800-G Series



13th Gen.(Raptor Lake-S)

Core i7-13700TE Core i5-13500TE

Celeron G6900TE

Features

Intel® Core™ processor series Raptor Lake-S supported

High-performance graphics with CPU embedded type

Mirroring (RAID1) supported

Removable storage adopted

Expand your peripherals with various interfaces

The selection of expansion slots from 1x PCI-Express(x1), 2x PCI or 3x PCI

LPC-400 Series



12th Gen.(Elkhart Lake)

Celeron J6412









Industrial Computers

CE FC ROHS

Features

Ultra Compact Business Computer That Can Be Installed

Small size but with many expansion interfaces and security

Embedded OS with lockdown function

Contec customized BIOS provides useful utility

Fanless design reduces maintenance work

Uses Intel® Celeron® J6412 processor

Industrial Computers

MR44000 Series













5th Gen. Scalable Xeon (Emerald Rapids)

Xeon Gold 6530

Features

Supports 5th Gen. Intel® Xeon® Scalable Processors

PCI Express expandable up to 7 slots

Supports HPC and GPU computing

Long-term supply and maintenance

4xPCI Express (x16), 3xPCI Express (x4)

MR4100 Series















High-power, 4U rack-mounted PC

Up to 7 slots of PCI and PCI Express can expand / Expandable with a total of 7 slots for PCI and PCI Express

Equipped with various interfaces as standard

Supports Windows 10 IoT Enterprise 2021 LTSC in multiple

MIRACLE LINUX 9.0 support

SR4100 / SR4110 / SR4120 Series



Core i7-10700E

Core i3-10100E

10th	Gen.(Comet	La	ike-S)	

10th Gen.(Comet Lake-S)

Core i9-10900E

Core i5-10500E

Core i9-10900E	Core i7-10700E
Core i5-10500E	Celeron G5900E







Features

Compatible with Intel® Core™ processor series

CPU and chipset designed for embedded devices

Expandable up to 11 slots of PCI and PCI Express

Rich variety of interfaces for freely expandable peripherals

Reliable, Japan-made power supply

Adapted an industrial single board computer

SR4100:1xPCle(x16)(x8 signal), 1xPCle(x8)(x4 signal),

SR4110:1xPCle(x16)(x8 signal), 2xPCle(x8)(x4 signal), 8xPCle(x4)(x1 signal)

SR4120:1xPCle(x16)(x8 signal), 2xPCle(x8)(x4 signal), 4xPCle(x4)(x1 signal), 4xPCl

SR4000 Series



	8th Gen.(Coffee Lake-S)
--	-------------------------

ore i7-8700 Core i5-8500 C	eleron G4900
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Features

Compatible with Intel® Core™ processor series Coffee Lake-S

CPU and chipset designed for embedded devices

Expandable up to 11 slots of PCI and PCI Express

Rich variety of interfaces for freely expandable peripherals

Adapted an industrial single board computer

1xPCle(x16)(x8 signal), 1xPCle(x8)(x4 signal), 9xPCl

SPF10SQ1700 Series



7th Gen.(Kaby La	ake) 6th Gen.(S		Skylake)	
Core i7-7700	Co	re i7-6700	Core i5	-7500
Core i5-6500	Core i3-7101E		Core i3	-6100
Celeron G3930F	Celeron G3900			



Compatible with Intel® Core™ processor series Skylake/ Kaby Lake

Compact wall-mounted design

CPU and chipset designed for embedded devices

Expandable to up to eight PCI and PCI Express slots

Rich variety of interfaces for freely expandable peripherals

SPF6SQ1700 Series



7th Gen.(Kaby La	ke) 6th Gen.(Skylake)
Core i7-7700	Core i7-6700	Core i5-7500
Core i5-6500	Core i3-7101E	Core i3-6100
Celeron G3930E	Celeron G3900	







CE FC UK ROHS



Industrial Computers

RoHS



Compatible with Intel® Core™ processor series Skylake/ Kaby Lake

Compact wall-mounted design

Expandable to up to five PCI and PCI Express slots

Rich variety of interfaces for freely expandable peripherals

Reliable, Japan-made power supply

All-in-One Computers

All-in-One Computers



Analog: Analog Resistive Touch, PCAP: Projected Capacitive (PCAP) Touch, Optical: Optical Imaging Touch WL: Wireless LAN, IPX2: Water Resistant (IPX2), NFC: Built-in NFC card reader/writer, Medical: Medical Grade IEC60601

PT-M07WA-310 Series









All-in-One Computers



Panel-mount Analog Atom x6425E

Features

Contributing to running cost reduction and energy efficiency

Fanless design that reduces maintenance and inspection

Remote power management function to reduce operation

Major types of peripherals are supported with rich

"Power failure protection system" features power-off without OS shutdown

Contec customized BIOS provides useful utility

PT-M10WB-300 Series











Panel-mount **PCAP** Atom x6413E

Features

Contributing to reduction of running cost and promotion of energy efficiency

Safe even if power is interrupted. UPS backup power supply, OS automatic shutdown function

Abundant expansion interface matched with device incorporation

Capacitive touch screen adopted

Fanless design that reduces maintenance and inspection

Vertical screen installation possible

XPT-T1000LX Series



Panel-mount 12.1"

Core i7-7600U Analog









Features

7th Gen. Core™ i7 processor adopted

Adopting a 5-wire resistive film touch-screen holds high

Major types of peripherals are supported with rich

A wide range of power supplies (10.8 to 31.2VDC)

"Power failure protection" features power-off without OS

Safety design required for embedded applications

All-in-One Computers

XPT-T1010LXC Series









Features

7th Gen. Core™ i5 processor adopted

Fan-less design reduces maintenance work

"Power failure protection system" features power-off without OS shutdown

A wide range of power supplies (10.8 to 31.2VDC) supported

Major types of peripherals are supported with rich

Adopting a 5-wire resistive film touch-screen holds high durability

PT-M12SA-300-G Series



Panel-mount	VESA-mount	
12.1"	Analog	Atom x6413E









Features

Intel® Elkhart Lake platform by x6413E processor

IP65 front bezel aluminum & dustproof application

1x DP and other rich expansion interfaces

Fanless design with removeable 2.5" storage driver bay Dual 2.5GbE, 4x COM, 6x USB ports, 1x GPIO, 1x VGA,

Wide range DC input

PT-M12SA-210 Series



VESA-mount Panel-mount Atom E3940







Features

Contributing to reduction of running cost and promotion of

Fan-less design reduces maintenance work

Adopting a 5-wire resistive film touch-screen holds high durability

"Power failure protection system" features power-off without

High-security design contributes to a highly reliable system

Contec customized BIOS provides useful utility

XPT-T1000HX Series







All-in-One Computers

Features

7th Gen. Core™ i7 processor adopted

Adopting a 5-wire resistive film touch-screen holds high

Major types of peripherals are supported with rich

A wide range of power supplies (10.8 to 31.2VDC) supported

"Power failure protection system" features power-off without

Safety design required for embedded applications

PT-S3000HX Series



Panel-mount		
15"	Analog	
Core i7-6700TE	Core i5-6500TE	Celeron G3900TE





Features

Intel® 6th Gen. Skylake platform

Silent fanless design with high airtight chassis

IP65 front panel for waterproof & dustproof applications

15" LCD with long-life touch screen and LED backlight for power saving

Support 5-wire resistive

Dual Giga LAN, 2x COM, 4x USB 3.0, 2x USB 2.0, 1x DVI-I, 1x DP and other rich expansion interface

PT-M15SA-210 Series













Contributing to reduction of running cost and promotion of energy efficiency

Fan-less design reduces maintenance work

Adopting a 5-wire resistive film touch-screen holds high

Power failure protection system" features power-off without

High-security design contributes to a highly reliable system

Contec customized BIOS provides useful utility

All-in-One Computers

Core i7-9700TE

PT-M17SB-2500-G Series



Core i5-9500TE







CE FC ROHS



Features

Compatible with Intel® 9th Gen. Coffee Lake-Refresh platform

IP65 + true flat front panel design

CPU built-in high-performance graphics

Adopt removable storage

Extend peripherals freely rich interfaces

PT-M21WB-2500-G Series

Core i3-9100TE | Celeron G4900T



Panel-mount	VESA-mount	
21.5"	PCAP	
		Ė.

Core i7-9700TE Core i5-9500TE Core i3-9100TE Celeron G4900T



Features

Compatible with Intel® 9th Gen. Coffee Lake-Refresh

IP66 + stainless front panel design

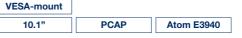
CPU built-in high-performance graphics

Adopt removable storage

Extend peripherals freely rich interfaces

PT-V10WB-200 / 200R / 210 / 210R Series

















All-in-One Computers

Features

Projected capacitive (PCAP) touch panel [PT-V10WB-200/200R]

Project capacitive (PCAP) touch panel with fingerprintresistant and oil-repelling coating [PT-V10WB-210/210R]

The compact design features flexibility in installation

Both DC input connectors, a jack type and a terminal block type are guipped with the unit for optimized use

Fan-less design that reduces maintenance and inspection work

VESA standard support

"Power failure protection system" features power-off without

Wireless connections to various devices via wireless LAN and Bluetooth [PT-V10WB-200R/210R]

PT-V15WB-200 / 200R Series



VESA-mount Atom E3940













Features

Projected capacitive (PCAP) touch panel

The compact design features flexibility in installation

Both DC input connectors, a jack type and a terminal block type are quipped with the unit for optimized use

Fan-less design that reduces maintenance and inspection

VESA standard support

Power failure protection system" features power-off without

Wireless connections to various devices via wireless LAN and Bluetooth [PT-V15WB-200R]

PT-V18WB-210D / 210DR Series













IPX2 drip-proof structure for the entire casing and IP65 dust- and drip-proof structure for the front section

Uses a stainless steel casing that resists rust

Uses a projected capacitive (PCAP) touch panel that can be used even while wearing gloves

Power Failure Protection system for reliable operation with no OS shutdown required

Convenient utilities based on Contec's originally designed

VESA standard support

Wireless connections to various devices via wireless LAN and Bluetooth [PT-V18WB-210DR]

All-in-One Computers

CA-ME215PE4 Series



VESA-mount Desk-top Wall-mount **PCAP** Core i5-1145G7E RoHS

Features

Intel® Tiger Lake 11th Gen UP3 Core™ i5 processor

21.5" 16:9 FHD Panel supporting gloved touch

Front web camera

Up to 64GB DDR4L SDRAM and up to 1TB SSD

Customized Windows 10 IoT Enterprise

IEC 60601 certified and Front IP65 dust and water ingression protection

PT-F10SA-320 Series



Open-frame 10.4" Analog Atom x6425E









All-in-One Computers

Features

Contributing to running cost reduction and energy efficiency

Fanless design that reduces maintenance and inspection

Remote power management function to reduce operation

Major types of peripherals are supported with rich

"Power failure protection system" features power-off without OS shutdown

Contec customized BIOS provides useful utility

PT-F12SA-320 Series



Open-frame 12.1" Analog Atom x6425E











Contributing to running cost reduction and energy efficiency

Fanless design that reduces maintenance and inspection

Remote power management function to reduce operation

Major types of peripherals are supported with rich

"Power failure protection system" features power-off without OS shutdown

Contec customized BIOS provides useful utilit

PT-D10WB-300 Series



Desk-top 10.1"

PCAP Atom x6413E









Features

Installable computer with desktop-type touch screen

Safe even if power is interrupted. UPS backup power supply, OS automatic shutdown function

Abundant expansion interface matched with device incorporation

Projected capacitive (PCAP) touch panel

Fan-less design that reduces maintenance and inspection

Displays

FPD-V11WB-10 Series



Panel-mount	VESA-mount		
11.6"	PCAP		









Features

HDMI and USB Type-C (DP Alt mode) input support USB PD support

Host PC power supply interlock function

* Support may vary depending on the time the product was sold. Contact your retailer for more information.

GPD-H64XT-AC Series



VESA-mount	Desk-top
15"	Analog







Features

Adopts an analog resistive type touch panel

Compatible with VESA standard (100 x 100 mm)

Uses non-glare treated TN panel

Complies with various safety standards

CM-ME121P Series



VESA-mount	Desk-top
12.1"	PCAP





Displays

Features

- Ultra-compact 12.1" form factor with near-square aspect
- One-click touch enable/disable soft key located on the front
- USB hub to power connected devices and 24V/1.5A medical-grade power adapter with locking mechanism (optional)
- IP65-rated front bezel
- Advanced Projected Capacitive (PCAP) touch technology
- Long-Life, revision controlled bill of materials (BOM)

CM-ME150R Series



VESA-mount	Desk-top
15"	Analog











- 15" medical-grade display with 1024 x 768 (4:3) resolution
- 5-wire resistive touch with USB/RS-232C combo touch
- 350 nits screen brightness

Features

- World class medical safety regulations and certifications
- Life cycle management and revision control

CM-ME170R Series



VESA-mount Analog









Features

- 17" medical display with 1280 x 1024 (5:4) resolution
- 5-wire resistive touch with USB/RS-232C combo touch interface
- 250 nits screen brightness
- World class medical safety regulations and certifications
- Life cycle management and revision control

Displays

CM-ME185P Series





Features

True-Flat Front IPx5 monitor for easy cleaning and

DICOM Part 14 compliant with 10 bits LUT

18.5" medical display with 166 x 768 (16:9) resolution

World class medical safety regulations and certifications

Life cycle management and revision control

CM-ME190R Series





Features

19" medical display with 1280 x 1024 (5:4) resolution

5-wire resistive touch with USB/RS-232C combo touch

250 nits screen brightness

World class medical safety regulations and certifications

Life cycle management and revision control

CM-ME215P Series



VESA-mount	Desk-top	
21.5"	PCAP	









Features

True-Flat Front IP65 monitor for easy cleaning and

DICOM Part 14 compliant with 12 bits LUT

21.5" medical display 1920 x 1080 (16:9) resolution

PCAP touch with USB/RS-232C combo interface

World class medical safety regulations and certifications

Life cycle management and revision control

CM-ME238P Series



VESA-mount	Desk-top
23.8"	PCAP





Displays



Features

23.8" medical display 1920 x 1080 (16:9) resolution

PCAP touch with USB/RS-232C combo interface

250 nits screen brightness

True-Flat Front IP65 monitor for easy cleaning and

DICOM Part 14 compliant

IEC 60601 medical safety and performance rated

CM-ME270P Series



VESA-mount	Desk-top
27"	PCAP







Features

Elegant and compact design

True-Flat front IP65 monitor for easy cleaning and

3000:1 High contrast delivering crisp image quality

DICOM Part 14 Compliant with 12 Bits LUT

1780 x 1780 Ultra wide viewing angle

World class medical safety regulations and certification

Displays **Displays**

RoHS

CI-DK070P Series

PCAP



Features

7" LCD with 800 x 480 WVGA resolution and 500nits brightness with LED backlight

-10 to 60°C(14 to 140°F) Wide operating temperature and compatible with Windows and Linux OS

Long-life industrial grade LCD panel and US-based touch screen integration and support

PCAP touch with USB interface and LVDS interface

LED driver board built-in

CM-PO190I Series



VESA-mount Infrared



Features

Durable, rugged design for high traffic areas

Safer, contactless / touchless touch technology reduces the spread of infectious diseases

Responsive and precise input control

1000:1 contrast ratio

450 nits brightness

1280 x 1024 SXGA resolution

CM-CL101P40WX-B Series



VESA Mount 10.1" **PCAP**







Features

Fully integrated Zebra SE3307WA 1D/2D barcode scanner

Front IP65 rated for dust and liquid ingress protection

Custom firmware supports full-size Microsoft QWERTY keyboard for improved data entry

Versatile mounting options for any application

Compact 10.1" 1200 x 800 WXGA display

PCAP Multi-Touch supports up to 10-Point touch

CM-CL101P40WX Series



VESA Mount PCAP 10.1"









Features

Compact 10.1" 1200 x 800 WXGA display

Front IP65 rated for dust and liquid ingress protection

Custom firmware supports full-size Microsoft QWERTY keyboard for improved data entry

Versatile mounting options for any application

PCAP Multi-Touch supports up to 10-Point touch

Tablets

CT-RU101PC Series















Features

Portable 10.1" tablet PC

Conforms to MIL standards established by the U.S. Department of Defense MIL-STD-810G

IP 65 grade dust proof, drip proof performance

Even if there is a power outage, the battery will last for

Wi-Fi, Bluetooth, and NFC write/read standard

A wide range of accessories to suit your needs

CONTENTS

Varied Functionality of CONPROSYS

P53-

Easily build an IoT environment

M2M Controller series



This series, offers a wide range of standard-equipped application functions required for IoT devices enabling data to be collected, sent, stored and visualized using various types of sensors and control

P57-

devices with IoT systems

M2M Gateway series



Connect multi-vendor PLCs and CNC machines to an IoT system. Supports both OPC UA and MTConnect communications making it is easier to integrate existing equipment into IoT systems.

P59-

I/O Modules and Options

PAC

Built in software PLC PAC series





This real-time controlle series supports CODESYS programming compliant with international standard IEC61131-3. An EtherCAT slave unit is also available

P64-

P61-

Remote I/O

P65-

CONPROSYS nano series



Remote I/O devices for digitizing interspersed local CONPROSYS nano is easy to use and excellent cost performance, which accelerates digital transformation of industrial

P65-

Sub-1GHz band Wireless

Wireless I/O series



Wirelessly communicate input voltage signals or input output digital signals from

P67-

sensors and actuators

IO-Link Master



Utilize existing field network on site. Easily connected with IO-Link

P69-

Easily visualize multiple factory systems operating in multiple locations with CONPROSYS.

Examples of CONPROSYS Usage



Supporting Process Reform in Manufacturing Industries. Initiative of Industrial 4.0

IoT-based Factories

CONPROSYS IoT devices have a built-in OPC UA server function. This makes it possible to use a SCADA system equipped with OPC UA client function to visualize the operating status of machine equipment. By making use of the open technology that complies with international standards and that is proposed by CONPROSYS, it is possible to carry out future investments in a scalable manner and with no waste such as by using MES/ERP linking to optimize supply chains and by implementing mass customization that uses the IoT.

[Components]







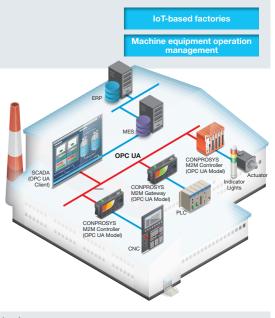








- Indicator lights, sensor inputs, CNC → M2M Controller (OPC UA Model)
- PLC data usage
- visualization of operation data Actuators and indicator lights
- → M2M Gateway (OPC UA Model)
- → OPC Client (MT-LINKi, other SCADA systems) → M2M Controller (OPC UA Model)



Add new value to your business with easy-to-deploy IoT devices

Manages Infrastructure Facilities of Multi-locations

With CONPROSYS, simple configuration is all it takes to start collecting data from communication devices - no programming required. Collected data can be linked to cloud services of other providers without having to develop a communication application







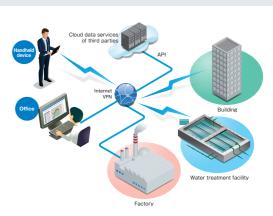




Inputs of indicator lights and sensors

PLC data usage

→ M2M Controlle → M2M Gateway



CODESYS, a Sequence Control Software Using Open Technology Forward to the Global Factories of the Next Generation

With the CONPROSYS PAC Series, it is possible to develop programs using an international-standard language that complies with IEC 61131-3. This makes it possible to apply PLC development technology to a variety of fields. The built-in web monitor function makes it possible to easily visualize data.



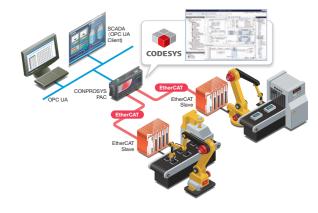






[Components]

- IEC 61131-3-compliant CODESYS → PAC series
- EtherCAT communication → EtherCAT Slave Unit
- Visualization of operating data → CONPROSYS HMI



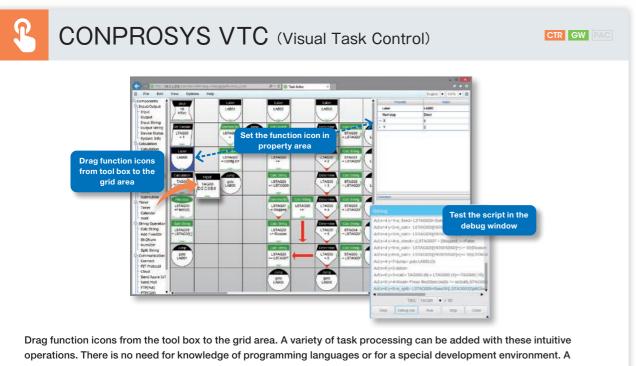


Varied Functionality of CONP ROSYS

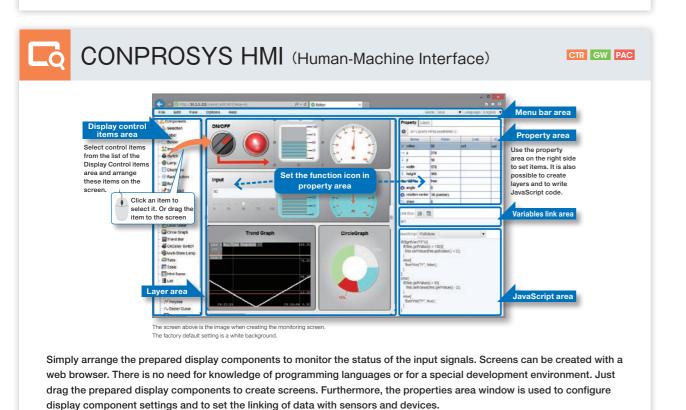
Built-in application functions that can be used to easily implement an IoT environment for collecting and storing data from sensors and controllers.

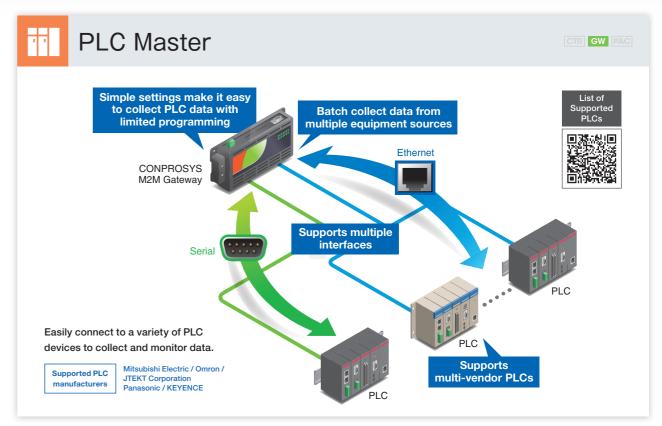
Data can be processed, controlled, and visualized with intuitive operations from a web browser.

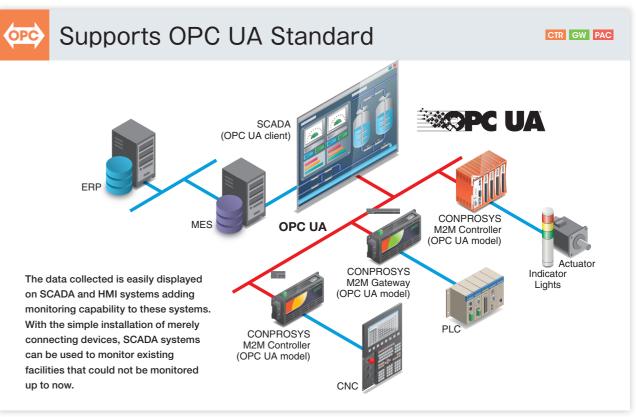




variety of tasks such as device I/O, calculations, flow control, character string operations, cloud data transmission, and file operations can be set easily from a web browser in the same manner as drawing a flow chart.









Varied Functionality of CONP ROSYS

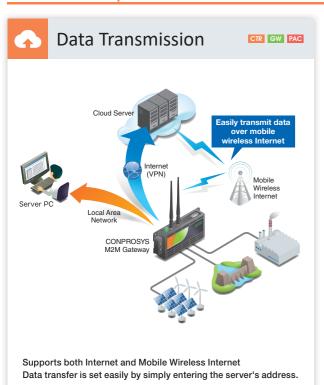
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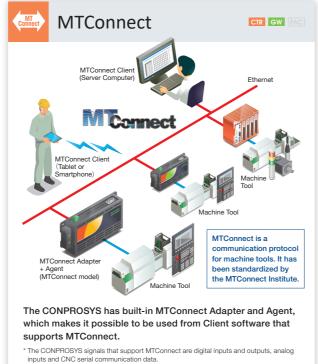
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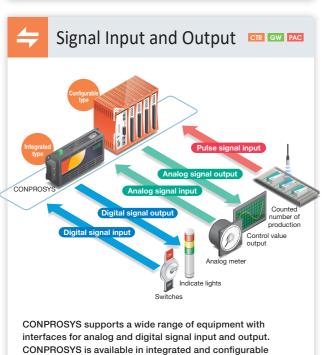
CTR M2M Controller series GW M2M Gateway series PAC PAC series



Data Capitalization

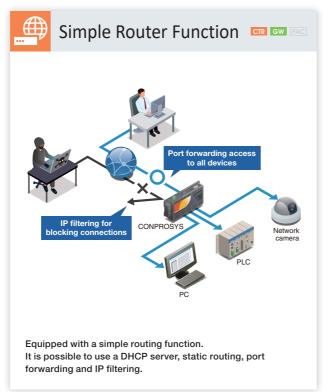




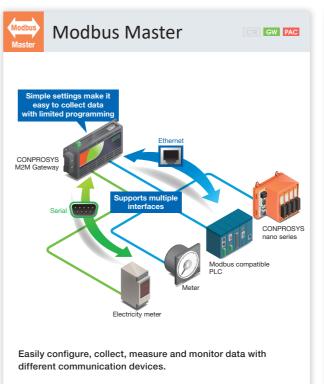


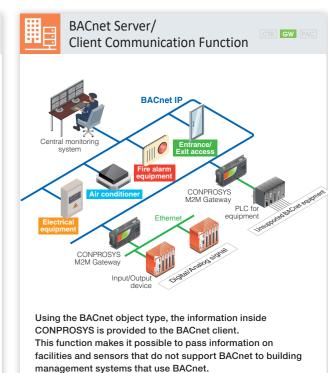
models. The integrated type is an all-in-one device. The

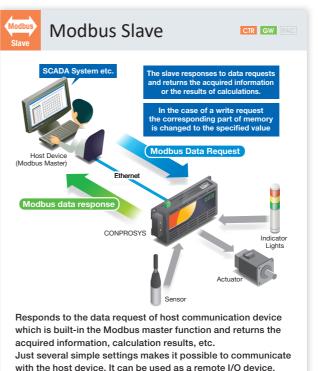
configurable type offers a high degree of expandability.

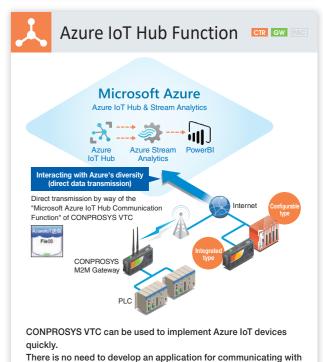


Connectivity









Rich Variety of Interfaces and Excelle nt Lineup

IM2M Controller series

The M2M Controller Series consists of two types of controllers: a stand-alone integrated type and an I/O interface expandable configurable type. The system is adaptable to a wide variety of locations, wiring methods and number of I/O channels. You can build a custom control and monitoring system to meet your specific needs.

Integrated Type















The integrated type offers a wide range of models with a variety of I/O interfaces and communication protocols.



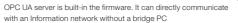


[Key Features]

- DIN rail or fixed mounting options available
- Embedded CPU
- Operating temperature range: -20 to 60°C (-4 to 140°F)
- Durable hardware reduces maintenance costs
- Daisy-chain connections do not required a HUB (Except some models)
- Power supply voltage: 12 to 24 VDC
- Physical dimensions: 188.0(W)x78.0(D)x30.5(H) mm (7.40"x3.07"x1.20") (does not include protrusions and antenna)

OPC UA server built-in model

CPS-MC341-ADSC1-931



Configurable Type





















The configurable type allows users to add a variety of I/O modules to a CPU controller providing ultimate flexibility.





[Key Features]

- Capable of supporting up to 16 I/O modules on a single controller
- DIN rail mountable
- Embedded CPU
- Operating temperature range: -20 to 60°C (-4 to 140°F)
- Durable hardware reduces maintenance costs
- Daisy-chain connections do not required a HUB
- Power supply voltage: 24 VDC
- Physical dimensions: 44.7(W)x94.7(D)x124.8(H) mm (1.76"x3.83"x4.91") (does not include protrusions and antenna)



OPC UA server built-in model



CPS-MCS341-DS1-131 CPS-MCS341G5-DS1-130 CPS-MCS341Q-DS1-131

Туре		Integrated Type									T
Prod	luct Name	Multi I/O	Multi I/O with built-in OPC UA server and MTConnect Adapter & Agent	Multi I/O with additional RS-485	Digital I/O with RS-485	Digital I/O with RS-232C	Digital I/O with CAN		Analog I/O	Multi I/O with 920MHz LAN (Japan only)	N
Mod	lel	CPS-MC341-ADSC1-111	CPS-MC341-ADSC1-931	CPS-MC341-ADSC2-111	CPS-MC341-DS1-111	CPS-MC341-DS11-111	CPS-MC341-DS2-911		CPS-MC341-A1-111	CPS-MC341Q-ADSC1-111	M
	LAN	2ch	2ch	2ch	2ch	2ch	2ch		2ch	2ch	
	SD Card Slot	1 Slot	1 Slot	1 Slot	1 Slot	1 Slot	1 Slot		1 Slot	1 Slot	
	USB	1ch	1ch	1ch	_	1ch	_		-	1ch	
	Digital Input	4ch*1	4ch*4	4ch*1	8ch*1	8ch'5	8ch*1		-	4ch*1	
	Digital Output	2ch	2ch	2ch	8ch	8ch	8ch		_	2ch	
_	Analog Input (Current)	2ch	2ch	2ch	_	-	_		-	2ch	_
Interfaces	Analog Input (Voltage)	-	_	_	_	_	_		8ch	_	nter
aces	Analog Output (Voltage)	-	-	-	_	-	-		2ch	-	aces
0,	Counter	2ch*2	2ch*2	2ch ²	_	_	_		_	2ch*2	ŭ
	RS-422A/485	1ch	1ch	2ch	1ch	-	1ch		-	1ch	
	RS-232C	1ch	1ch	1ch	-	1ch	-		-	1ch	
	CAN	-	-	-	-	-	1ch		-	-	
	4G SIM (Standard)	-	-	-	_	-	-		-	-	
	920MHz	-	-	-	-	-	-		-	0	
	Data Transmission	0	0	0	0	0	0		0	0	
	OPC UA Server	-	0	-	-	-	-		-	-	
	MTConnect	-	0	_	_	_	_		_	_	
-	Signal I/O	0	0	0	0	0	0		0	0	_
Functions	Modbus Master	-	_	_	_	_	_		_	_	Ė
tions	Modbus Slave	0	0	0	0	0	0		0	0	COLIS
	PLC Master	-	-	-		-	-		-		
	НМІ	0	0	0	0	0	0		0	0	
	VTC	0	0	0	0	0	0		0	0	
	CNC Communication	-	0	-	-	-	-		-	-	
0	Operating temperature	-20 to 60°C (-4 to 140°F)									c
Others	Physical dimensions (WxDxH)	188.0 x 78.0 x 30.5 mm (7.4	10 x 3.07 x 1.20 in) (does not in	clude protrusions and antenna							, men
S											U

-31		Comiguratio type						
Name of Product		Controller	Controller with built- in OPC UA server and MTConnect Adapter & Agent	Controller with built-in OPC UA server and MTConnect Adapter & Agent + 4G WAN*3	Controller with built- in OPC UA server and MTConnect Adapter & Agent + 920MHz LAN (Japan only)			
Mod	el	CPS-MCS341-DS1-111	CPS-MCS341-DS1-131	CPS-MCS341G5-DS1-130	CPS-MCS341Q-DS1-131			
	LAN	2ch	2ch	2ch	2ch			
	SD Card Slot	1 Slot	1 Slot	1 Slot	1 Slot			
	USB	1ch	1ch	1ch	1ch			
	Digital Input	4ch*1	4ch*1	4ch*1	4ch*1			
	Digital Output	4ch*7	4ch*7	4ch*7	4ch*7			
_	Analog Input (Current)	-	-	-	_			
Interfaces	Analog Input (Voltage)	-	-	-	-			
face	Analog Output (Voltage)	-	-	-	-			
O)	Counter	-	-	-	_			
	RS-422A/485	-	-	_	-			
	RS-232C	1ch	1ch	1ch	1ch			
	CAN	-	-	_	-			
	4G SIM (Standard)	-	-	1 Slot	_			
	920MHz	-	-	-	0			
	Data Transmission	0	0	0	0			
	OPC UA Server	-	0	O*6	O*6			
	MTConnect	-	0	O*6	O*6			
_	Signal I/O	0	0	0	0			
unc:	Modbus Master	-	_	_	_			
Functions	Modbus Slave	0	0	0	0			
0,	PLC Master	-	-	_	_			
	нмі	0	0	0	0			
	VTC	0	0	0	0			
	CNC Communication	-	0	0	0			
0	Operating temperature	-20 to 60°C (-4 to 140°F)		<u> </u>	<u> </u>			
Others	Physical dimensions (WxDxH)	44.7 x 94.7 x 124.8 mm (1.	76 x 3.83 x 4.91 in) (does not i	nclude protrusions and antenn	a)			
co	Power supply voltage	24VDC						

Refer pages 61 to 63 for line up of configurable type I/O modules.

^{*1} Opto-isolated input (supports sink output). Built-in 12VDC power. *2 Counter inputs share with digital inputs. *3 SIM card not included. Standard size SIM card only. Visit www.contec.com for details.

^{*4} Opto-isolated (supports sink output and current source output). Built-in 12VDC power or external 12 to 24VDC power is switchable, *5 Opto-isolated (supports sink output). External 12 to 24VDC power supply is needed.

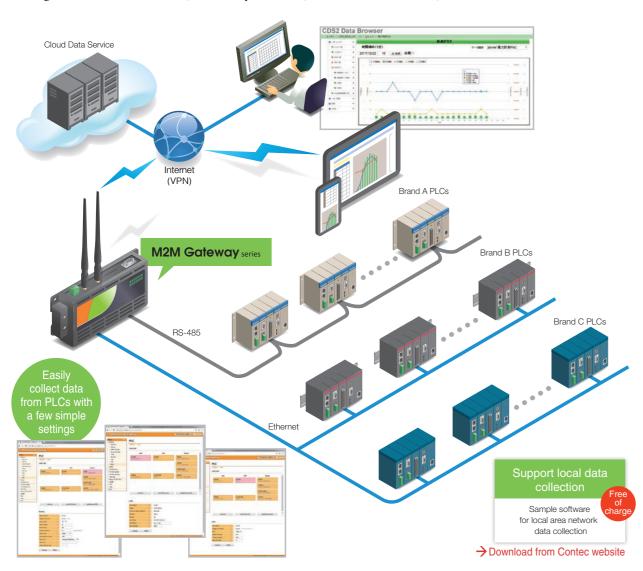
^{*6} Available only for Ethernet communication. 4G and 920Mhz wireless communication do not support this function. *7 Digital outputs is exclusive with digital input. * The specifications are supported by the newest firmware drivers. Please download the newest firmware from Contec website when you need.

Multi-vendor Compatible PLC to IoT

M2M Gateway series

A single CONPROSYS controller can collect data from multiple PLC controlled equipment. M2M Gateway series supports devices from a variety of vendors,

including Mitsubishi's MELSEC series, Omron's Sysmac series, JTEKT's TOYOPUC series, Panasonic series and KEYENCE series.



Monitoring PLC Device Memory

- Reads data from PLC memory (I/O status, data register, link register, file register, etc.)
- Transmits collected data to the cloud through simple settings.
- It is possible to communicate with the PLC at an arbitrary timing by setting the communication attribute and using the VTC function

Link up to 10 Systems and 100 Register Groups

Supports Multiple PLC Devices and Modbus Equipment from Different Vendors

Compatible with Mitsubishi MELSEC-FX / -A / -Q / -L / iQ-F / iQ-R series, Omron Sysmac C / CPM / CS /CJ / CP series,

JTEKT TOYOPUC PC10G-CPU series,

Panasonic FP7 / FP2 / FP-X / FP-X0 series / Eco-POWER METER, and KEYENCE KV-3000 / KV-5000 / KV-7000 / KV-8000 / KV Nano series. Communicates with a variety of Modbus equipment.



Lineup

Integrated Type





















CPS-MG341-ADSC1-111

CPS-MG341-ADSC1-931



CPS-MG341G5-ADSC1-931

Configurable Type

























CPS-MGS341-DS1-131



CPS-MGS341G5-DS1-130

* Key features are same as integrated type M2M controller series. Refer P57 for details.

Туре			Integrated Type	Configurable Type			
Nam	e of Product	roduct PLC data logger where the Multi I/O struct N		PLC data logger + Multi I/O + Multi I/O + 4G WAN'1 server and MTConnect Adapter & Agent PLC data logger + Multi I/O + 4G WAN'1 with built-in OPC UA server and MTConnect Adapter & Agent		PLC data logger + Multi I/O + 4G WAN*1 with built-in OPC UA server and MTConnect Adapter & Agent	
Mod	el	CPS-MG341-ADSC1-111	CPS-MG341-ADSC1-931	CPS-MG341G5-ADSC1-931	CPS-MGS341-DS1-131	CPS-MGS341G5-DS1-130	
	LAN	2ch	2ch*4	2ch*4	2ch*4	2ch*4	
	SD Card Slot	1 Slot	1 Slot	1 Slot	1 Slot	1 Slot	
	USB	1ch	1ch	1ch	1ch	1ch	
	Digital Input	4ch*2	4ch*5	4ch*5	4ch*2	4ch*2	
	Digital Output	2ch	2ch	2ch	4ch*7	4ch*7	
	Analog Input (Current)	2ch	2ch	2ch	=	_	
Interfaces	Analog Input (Voltage)	_	-	_	=	=	
face	Analog Output (Voltage)	-	-	-	_	-	
o	Counter	2ch*3	2ch*3	2ch"3	=	=	
	RS-422A/485	1ch	1ch	1ch	=	=	
	RS-232C	1ch	1ch	1ch	1ch	1ch	
	CAN	-	-	-	-	-	
	4G SIM (Standard)	-	-	1 Slot	=	1 Slot	
	920MHz	-	-	-	=	=	
	Data Transmission	0	0	0	0	0	
	OPC UA Server	-	0	0	0	0	
	MTConnect	_	O*6	O*6	O*6	O*6	
	Signal I/O	0	0	0	0	0	
Functions	Modbus Master	0	0	0	0	0	
tion	Modbus Slave	0	0	0	0	0	
co	PLC Master	0	0	0	0	0	
	НМІ	0	0	0	0	0	
	VTC	0	0	0	0	0	
	CNC Communication	-	0	0	0	0	
	Operating temperature	-20 to 60°C (-4 to 140°F)					
Others	Physical dimensions (WxDxH)	188.0 x 78.0 x 30.5 mm (7.40 x 3.	07 x 1.20 in) (does not include protru	44.7 x 94.7 x 124.8 mm (1.76 x 3.83 x 4.91 in) (does not include protrusions and antenna)			
	Power supply voltage	12 to 24VDC		24VDC			

^{*1} SIM card not included. Standard size SIM card only. Visit www.contec.com for details.

^{*2} Opto-isolated input (supports sink output). Built-in 12VDC power. *3 Counter inputs share with digital inputs.

^{*4} The LAN ports are independent, which makes it possible to split the network segment.

^{*5} Opto-isolated inputs (supports both current sink output and current source output). Built-in 12VDC power or external 12 to 24VDC power is switchable.

^{*6} Transmittable signals by MTConnect are the collected data through the gateway module's inferfaces, and the serial communication data with the CNC.

^{*7} Digital outputs is exclusive with digital input.

I/O Modules and Options

II/O Modules

I/O interface expansion modules of the configurable type controllers and the IoT Edge controller. 24 VDC power is supplied by the controller to the attached I/O modules via the internal bus.

Analog Input and Output Modules								
Model	Input	Output	Power Consumption	Connectors	Controller series			
CPS-AI-1608LI	8ch differential input, 16bit resolution, ±10V Bus isolated	_	100mA (Max.)					
CPS-AI-1608ALI	8ch differential input, 16bit resolution, 0-20mA Bus isolated	_	100mA (Max.)	Screw terminal block (3.81mm/0.15* pitch)	CTR			
CPS-AO-1604VLI	_	4ch voltage output, 16bit resolution, ±10V Bus isolated	200mA (Max.)		GW PAC			
CPS-AO-1604LI	-	4ch current output, 16bit resolution, 0-20mA Bus isolated	200mA (Max.)					

	Sensor Module										
Model		Supported sensor / wiring method	No. of CH / Isolation	Power Consumption	Connectors	Controller series					
	CPS-SSI-4P	Pt100 / Three-wire or four-wire	4ch sensor input Bus isolated	100mA (Max.)	Screw terminal	CTR					
	CPS-SSI-4C	Thermocouple input (J, K, E, N, R, S, T)	4ch bus isolated	100mA (Max.) (TBC) 1	(3.81mm/0.15" pitch)	PAC					

*1 Visit the Contec website for more information.

Digital Input and Output Modules											
	Model	Input	Output	Power Consumption	Connectors	Controller series					
I	CPS-DIO-0808L	8ch opto-isolated	8ch opto-isolated open-collector	100mA (Max.)							
İ	CPS-DIO-0808BL (Built-in 12VDC power)	(Compatible with current sink output)	(Current sink type)	200mA (Max.)							
Ì	CPS-DIO-0808RL	8ch opto-isolated (Compatible with current source output)	8ch opto-isolated (Current source type)		Screw terminal block (3.81mm/0.15* pitch)	CTR GW PAC					
	CPS-DI-16L	16ch opto-isolated (Compatible with current sink output)	_	100mA (Max.)							
	CPS-DI-16RL 16ch opto-isolated (Compatible with current source output) CPS-DO-16L —		_	100mA (Max.)							
The state of the s			16ch opto-isolated open-collector (Current sink type)	100mA (Max.)							
	CPS-DO-16RL	_	16ch opto-isolated (Current source type)	100mA (Max.)							

Relay Modules					
Model	Input	Output	Power Consumption	Connectors	Controller series
CPS-RRY-4PCC	_	4ch relay contact output (1 pair of Form c contacts)	100mA (Max.)	Screw terminal block (5.08mm/0.20" pitch)	GW PAC
Counter Modules					
Model	Input	Output	Power Consumption	Connectors	Controller series
CPS-CNT-3202I	Phase A/Up 1x2ch Phase B/Down 1x2ch Phase Z/CLR 1x2ch General input 1x2ch Optocoupler isolated. Isolation between channels	Match signal output 1x2ch (Opto-isolated open-collector output)	100mA (Max.)	Screw terminal block (3.81mm/0.15* pitch)	CTR GW PAC

: 10		M2M Controller series GW	M2M Gateway	y series PAC I	PAC serie
rial Communication N Model	Transmission Scheme	No. of CH / Isolation	Power Consumption	Connectors	Controller series
CPS-COM-1PC	RS-232C	1ch bus isolated	100mA (Max.)	9-pin D-SUB connector (s)	CTR
CPS-COM-2PC	Asynchronous serial transmission	2ch bus isolated Isolation between channels	200mA (Max.)		
CPS-COM-1PD	RS-422A/RS-485	1ch bus isolated	200mA (Max.)	Screw terminal	PAC
CPS-COM-2PD	Asynchronous serial transmission (Full duplex / half duplex)	2ch bus isolated Isolation between channels	200mA (Max.)	(3.81mm/0.15" pitch)	

Options

Product Name	Model	Input	Output	Physical dimensions (WxDxH)	Mount Method	Support Products
Power Supplies	CPS-PWD-15AW12-01		12VDC、 1.3A (Max.)	39 x 80 x 79 mm (1.54 x 3.15 x 3.11 in) (does not include protrusions)		Integrated type controllers
200	CPS-PWD-30AW24-01	85 to 264VAC	24VDC, 1.3A (Max.)	22.5 x 75 x 90 mm (0.89 x 2.95 x 3.54 in) (does not include protrusions)	Mountable to a 35mm/1.38" DIN rail	Configurable type
	CPS-PWD-90AW24-01		24VDC、 3.8A (Max.)	50 x 90 x 90 mm (1.97 x 3.54 x 3.54 in) (does not include protrusions)		controllers

*AC power cable is not included. An optional AC power cable is available from Contec (IPC-ACCODE3).

Product Name	Model	Rating	Cable Length	Term	inals	Support Products
AC Power Cable	IPC-ACCODE3	125VAC 7A	2m	3-pole round terminal		Power supplies
Product Name	Model	Frequency Band	Cable Length	Antenna Gain	Physical dimensions (WxDxH)	Support Products
Roof Top Antenna	CPS-ANT-R5-01	800 MHz band 1.5 GHz band 1.7 GHz band 2.0 GHz band 2.5 GHz band	5m	800MHz band: 1.0dBi or smaller 1.5GHz band: 1.0dBi or smaller 1.7GHz band: 0.0dBi or smaller 2.0GHz band: 1.0dBi or smaller 2.5GHz band: 1.0dBi or smaller (Don't include cable loss)	83 x 39.6 x 160 mm (3.27 x 1.56 x 6.30 in) (Not including protrusions and cable)	4G WAN models
01	CPS-ANT-R3-01	800 MHz band 920 MHz band 2.1 GHz band	3m	800 MHz band: 3.88dBi 920 MHz band: 3.02 dBi 2.1 GHz band: 3.76 dBi (Don't include cable loss)	42 x 42 x 93 mm (1.65 x 1.65 x 3.66 in) (Not including protrusions and cable)	920 MHz models 4G WAN models
Product Name	Model	Cable Length		Specification	Support Pro	ducts
Connection Cable	CPS-CAB-S01-1	1m				
for FANUC CNC	CPS-CAB-S01-3	3m		conversion cable control, one touch lock type)	OPC UA server built-in modules OPC UA server built-in modules	
	CPS-CAB-S01-5	5m				
Connection Cable for Mitsubishi Electric CNC	CPS-CAB-S02-1	1m		x 2 conversion cable control, one touch lock type)		
Product Name	Model		Number		Support Products	

Industrial Switching HUB

CPS-MAG01-4



Integrated Type Modules

A power supply must be provided separately. We offer an AC adapter (model: POA201-10-2) (sold separately). Please check our website for details.

I/O Modules and Options



An innovative IoT solution for measuring motor insulation deterioration during operation

Three-phase Motor Insulation Deterioration Monitoring Module + ZCT Sensor

CTR M2M Controller series

Model	The Measured Circuit	No. of measured circuit	Inner diameter of ZCT	Measurement voltage range	Measurement leakage current range (Resolution: 0.001 mA)	Measured insulation resistance range	Controller series
CPS-MM-LC	Overall equipment measurement (power supply mode) / Inverter output section measurement (inverter mode) AC servo amplifier output measurement (inverter mode)	1ch	Ф25mm (Ф0.98")	Phase voltage 10 VAC or more, 600 VAC or less	Overall equipment measurement: 0 to less than 1A Inverter output section measurement: 0 to less than 100 mA AC servo amplifier output measurement: 0 to less than 100 mA	Less than 1,000M Ω^*	CTR

- * Supports inverters and AC servo amplifiers that supply low-voltage, three-phase power, * The guaranteed accuracy range is less than 10 MO
- * DC servo motor, and equipment that use single-phase power supply are not supported. Please contact us for large diameter ZCT of 25 mm or more.



This module also features "Modes-IO" patented technology from Tanashin Denki Co., Ltd. that can be used for measuring leakage current resistance component (I0r) from operating motors with high precision.

■ Monitoring display example using CONPROSYS HMI

Eliminates the need to stop equipment for inspections

This module measures leakage current resistance components (I0r) from operating motors with high precision. It changes the maintenance work to constant monitoring and contribute to the improvement of the equipment operation rate.

Shipped with a ZCT (Ф25) sensor for up to 30kW low-voltage, three-phase motors and AC servo motors.

This module supports three-phase delta connections and three-phase Y connections. It can be applied to a wide range of devices such as pumps, compressors, A/C fans, metalworking machines, and transport equipment.

Threshold values

Supports devices that acts without using a PC. Supports cloud service.

This module supports M2M controllers with built-in IoT functions such as data collection, web monitoring, and cloud linking. It can also be operated without a PC.

Displays the insulation resistance

Displays the judgements

of the threshold.

CONPROSYS HMI makes it possible

to view equipment information on a

Web browser without using a cloud server or similar device. This monitoring display example can be downloaded free-of-charge from the "Script sample programs"

Flexible systems can be constructed by using in combination with the various functions of M2M controller CPU modules.

with a M2M controlle



Example of System • Detects insulation deterioration on the inverter output side,

can be changed temporarily values of the measurement results. 0.010 mA 0.006 mA 0.006 mA 42.24 V 42.24 V 0.010 mA 0.006 mA 0.006 mA

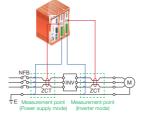
Hourly insulation resistance graph display for the day

Wiring



page of our company's website. Target sample software: "Sample software for three-phase motor

insulation deterioration monitoring



Enter into the IoT Era with a Real Time Controller

PAC series

IEC61131-3 standard CODESYS programming. Rich functionality to build an open system.



Web monitoring function using built-in **CONPROSYS HMI**

CONPROSYS PAC series includes a web server function and web through a web

browser without the use of a cloud server. No programming experience required.



screen creation software. Monitoring screens can be developed in a user friendly web browser environment. Devices can be monitored



Fieldbus master function

The built-in customized CODESYS Runtime engine supports EtherCAT / Modbus-TCP master functions. In the CODESYS integrated



Ether CAT.

development environment, fieldbus I/O can be directly assigned to variables in the same manner as the built-in I/O of a PAC integrated controller and the attached I/O of a PAC configurable controller.

Built-in OPC UA server for SCADA/MES/EPR linking

The built-in OPC UA server provides the ability to embed the CONPROSYS. PAC series controller into a host SCADA system or other applications that support OPC UA protocol.

Lineup

Integrated Type





CPS-PC341MB-ADSC1-9201

*Key features are the same as the integrated type M2M controller seroes. Refer to page 57 for details.

*Check the datasheets of each model for its interface specification from Contec Web site

Configurable Type



CPS-PCS341EC-DS1-1201





CPS-PCS341MB-DS1-1201



*Key features are the same as the configurable type M2M controller series Refer to page 58 for details.

Ether CAT Slave Unit

CPS-ECS341-1-011

EtherCAT slave unit

EtherCAT features allow the I/O modules to be controlled from a distance. Up to 16 I/O modules can be stacked to one slave unit.

Each slave unit is equipped with an input port and an output port. Up to 65,535 slave units can be connected to one master. An MDP standard supported master controller will automatically recognize and register the I/O modules that attached on this EtherCAT slave unit



Remote I/O Remote I/O

Remote I/O System for IoT **CONPROSYS** nano series

Remote I/O devices for digitizing interspersed local devices.

CONPROSYS nano is easy to use and excellent cost performance, which accelerates digital transformation of industrial systems.



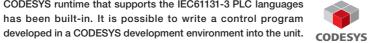
Compatible with 35 mm DIN rail

Best value remote I/O

narrowed down to necessary functions. Modular design realizes lean configuration with minimum required I/Os.

Remote I/O equipment that does not compromise ease of use and Programmable with IEC 61131-3 PLC language

CODESYS runtime that supports the IEC61131-3 PLC languages has been built-in. It is possible to write a control program



Supports Windows PC, Linux PC, or Modbus device

It can be used as a remote I/O device of equipment with Modbus master function such as Windows PC, Linux PC, and PLC.

Coupler Unit

Model		Function Power Supply Physical di		Physical dimensions (WxDxH)	Installation Method	Operating Temperature	
	CPSN-MCB271-S1-041	Windows/Linux driver control Modbus-TCP slave	12 to 24VDC	110 x 74.8 x 95 mm (4.33 x 2.94 x 3.74 in)	35 mm DIN rail Screw	-20 to 60°C (-4 to 140°F)*1	
	CPSN-MCB271-1-041	Windows/Linux driver control Modbus-TCP slave 2x LAN (HUB function)	12 to 24VDC	110 x 74.8 x 95 mm (4.33 x 2.94 x 3.74 in)	35 mm DIN rail Screw	-20 to 60°C (-4 to 140°F)*1	

^{*1} The operating temperature is from -20°C to 55°C (-4°F to 131°F) when the unit is wall mounted by rolling left/right 90° or when the unit put on placed flat on the table.

Programmable Remote I/O 4-slot					
Model	Function	Power Supply	Physical dimensions (WxDxH)	Installation Method	Operating Temperature
CPSN-PCB271-S1-041	IEC 61131-3 compliant programming Modbus-TCP master / slave	12 to 24VDC	110 x 74.8 x 95 mm (4.33 x 2.94 x 3.74 in)	35 mm DIN rail Screw	-20 to 60°C (-4 to 140°F)*1

^{*1} The operating temperature is from -20°C to 55°C (-4°F to 131°F) when the unit is wall mounted by rolling left/right 90° or when the unit put on placed flat on the table.

I/O Modules

Analog Input Modules										
Model	Input Format	No. of Input Channels	Voltage Input ⁻¹	Input Current 112	Power Consumption	Connector				
CPSN-AI-1208LI ^{*1*2}	Single-end input	8ch (single-end input) 4ch (differential input)	±10V,±5V, ±2.5V, 0 to 10V, 12bit, Bus isolated	±20mA 12bit, Bus isolated	1.4W	Screw terminal block				
CPSN-AI-2408LI ⁻²	or differential input		±10V,±5V, ±2.5V, 0 to 10V, 0 to 5V 24bit, Bus isolated	±20mA, 0 to 20mA, 24bit, Bus isolated	1W	- (3.81mm/0.15" pitch 10- pin)				

^{*1} All input channels are assigned for the same input format and input range.

^{*2} Current input is only for differential input.

Analog Output Module								
Model	Output Format	No. of Output Channels / Isolation	Resolution	Output Range	Voltage Current Output Range	Power Consumption	Connector	
CPSN-AO-1602LC	Voltage/current output	2ch / Channel isolated	16bit	±10V, ±5V, 0 to 10V, 0 to 5V	0 to 20mA	2.1W	Screw terminal block (3.81mm/0.15" pitch 10- pin)	

Sensor Module	Sensor Module								
Model	Input Format	No. of CH/ Isolation	Supported Sensors	Power Consumption	Connector				
CPSN-SSI-04C	Differential input	4ch / Bus isolated	Thermocouple J,K,E,N,R,S,T	1.1W	Screw terminal block (3.81mm/0.15" pitch 10- pin)				

Digital I/O Modules						
Model	Input	Output	Power Consumption	Connector		
CPSN-DI-08L	8ch Opto-coupler isolated input Supports current sink (negative logic) or source (positive logic) output	_	0.3W	Screw terminal block (3.81mm/0.15" pitch 10-pin)		
CPSN-DI-08BL (Built-in power supply: 12VDC)	8ch Opto-coupler isolated input Supports current sink output (negative logic)	_	0.9W	S.ommvo.13 pilon ro-pinj		
CPSN-DI-16BCL (External power supply: 12-24VDC / Built-in power supply: 12VDC)	16ch Opto-coupler isolated input (Supports current sink (negative logic) or source (positive logic) output) with simple counter function	-	1.3W	MIL connector(20-pin)		
CPSN-DO-08L	_	8ch Opto-coupler isolated open collector output (current sink type) (negative logic)	0.4W			
CPSN-DO-08BL (Built-in power supply: 12VDC)	_	8ch Opto-coupler isolated open collector output (current sink type) (negative logic)	1.2W	Screw terminal block		
CPSN-DO-08RL	_	8ch Opto-coupler isolated output (current source output)(positive logic)	0.3W	(3.81mm/0.15" pitch 10-pin)		
CPSN-DO-08BRL (Built-in power supply: 12VDC)	_	8ch Opto-coupler isolated output (current source output)(positive logic)	1.2W			
CPSN-DO-16L	_	16ch Opto-coupler isolated open collector output (current sink type) (negative logic)	0.5W	MIL connector/20 pin		
CPSN-DO-16BL (Built-in power supply: 12VDC)	_	16ch Opto-coupler isolated open collector output (current sink type) (negative logic)	0.5W	- MIL connector(20-pin)		
CPSN-DIO-08SL	Bi-Directional: 8ch (shared inputs and outputs) Input: Opto-coupler isolated input(supports current s Output: Opto-coupler isolated open-collector output	0.3W	Screw terminal block (3.81mm/0.15" pitch 10-pin)			

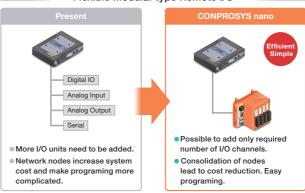
Relay Modules						
Model	Input	Output	Power Consumption	Connector		
CPSN-RRY-4PCA	_	4ch relay contacts (Form A) output	I 1 2W	Screw terminal block (3.81mm/0.15" pitch 10-pin)		

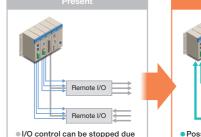
Counter Modules						
Model	Input	Output	Power Consumption	Connector		
CPSN-CNT-3201I	Phase-A/UP 1ch Phase-B/DOWN 1ch Phase-Z/CLR 1ch General-purpose input signals 1ch Opto-coupler isolated input	Match signal output 1ch Opto-coupler isolated open collector output	0.4W	Screw terminal block (3.81mm/0.15* pitch 10-pin)		

Serial Communication Module					
Model	Transmission Scheme	No. of CH/ Isolation	Power Consumption	Connector	
CPSN-COM-1PD	Asynchronous serial transmission (Full duplex / Half duplex)	1ch / Bus isolated	l 1 7W	Screw terminal block (3.81mm/0.15" pitch 10-pin)	

Benefits of CONPROSYS nano series

Flexible Modular type Remote I/O





I/O control can be stopped due

- communication traffic are heavy.

Possible to continue to control I/ communication traffic are low.

Highly efficient programmable Remote I/O

System Configuration Examples Utilizing CONPROSYS nano series

PC-based Remote I/O System utilizing Windows PC or Linux Compu

Windows / Linux driver software are ready. Remote I/O system can be configured by industrial PC as a master controller.



Simple Remote I/O System using a PLC as the Master Controlle

Supports Modbus communication. Remote I/O system can be configured by Modbus supported PLC as a master controller.



Sub-1GHz band Wireless

Wireless I/O series for US / EU / China

Wirelessly communicate input voltage signals or input/output digital signals from terminals up to 1 km apart.

[Key Features]

- Highly reliable mesh communication
- Supports Sub-1GHz band wireless with excellent transmission distance
- Driver library for Windows and Linux



GW1-ETH-WQ-US
Gateway terminal
(master)
for computer



Analog input terminal (slave)
10-bit, 4ch, ±10V



Digital I/O Terminal (slave) isolated input 4ch, output 4ch



Application Example of Wireless I/O Series

Implementation image at water treatment plant

Benefits of the System

Ideal for monitoring targets scattered in a wide area

Because the superior inlong distance wireless communication feature, it is suitable for installation on monitored objects scattered in a wide area.

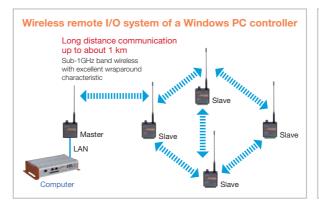
Highly reliability prevents data loss

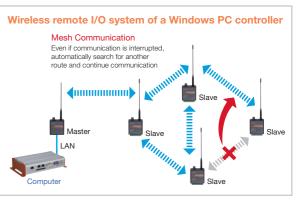
If a communication failure occurs between a certain slave terminal and the master gateway, the system mesh communication function will make this slave terminal communicate with the master gateway via another slave

Easy to mount

By using the optional bracket, the robust and compact terminal can be mounted on a DIN rail.

Network Topology





Remote I/O

Applications and Solutions

- · Airport luggage conveyor control system
- Distributed signal monitoring system in factory with wide site
- Temperature monitoring system for a wide warehouse where layouts of stored products are changed frequently
- Monitoring system which can use Sub-1GHz band wireless to ensure of the communication channels if there is too much WiFi (2.4 GHz) wireless signal sources
- · Tank level monitoring system

Product Lineup

Product name	Model	Region / Standard	Functions
Sub-1GHz band Wireless	GW1-ETH-WQ-EU, -CN	EU / CE	Wireless I/O master terminal
Ethernet Gateway	GW1-ETH-WQ-US	US / FCC	Ethernet - Sub-1GHz wireless communication conversion
Sub-1GHz band Wireless Isolated Digital I/O Terminal	DIO-0404LY-WQ-EU	EU / CE	Wireless I/O slave terminal Photocoupler isolated inputs: 4
	DIO-0404LY-WQ-US	US / FCC	Photocoupler isolated inputs: 4 Photocoupler isolated open-collector outputs: 4
Sub-1GHz band Wireless	AI-1004LY-WQ-EU	EU / CE	Wireless I/O slave terminal
4-channel Analog Input Terminal	AI-1004LY-WQ-US	US / FCC	10-bit, 4-channel, ±10V analog input
Mounting Bracket	BRK-WQ-Y	-	Bracket for DIN rail mounting
AC Adapter	POA201-10-2	CE, FCC, UL/c-UL, PSE	Input: 90 to 264 VAC, output: 12 VDC 1A

- * The photographs used in this paper are GW1-ETH-WQ-US, AI-1004LY-WQ-US, or DIO-0404LY-WQ-US respectively
- * There are also Sub-1GHz band wireless products for Japan market.

Main Features of the Wireless I/O Series

- Highly reliable Mesh communication, AES-encrypted data communication
- · Supports ambient temperatures from -20°C to 60°C
- Compact design (62.0(W) x 64.0(D) x 24.0(H)mm, No projection and antenna included)
- Can be installed on a DIN rail with the optional DIN rail mounting bracket
- Driver available for Windows (free download from CONTEC website) and Linux (available soon)
- · A gateway (master) can connect with up to 128 I/O terminals (slave)

Models Usable in Overseas Markets





868 to 868.6MHz

RoHS

68

Remote I/O Remote I/O

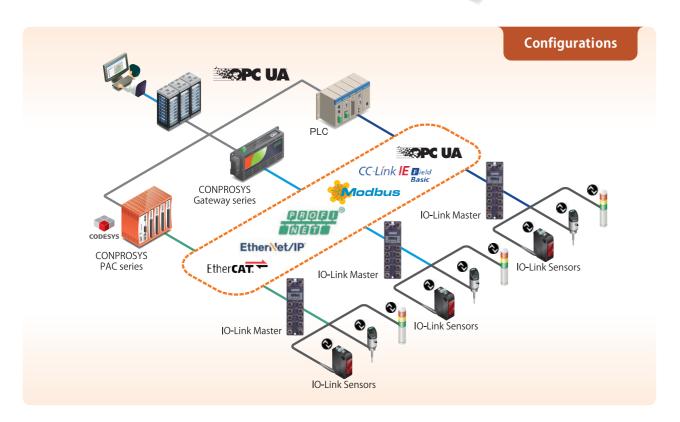
Compatible with IEC 61131-9 compliant sensors and actuators

ICONPROSYS IO-Link Master

Utilize existing field network on site. Easily connected with IO-Link sensors!

[Key Features]

- Supports multiple Field Bus Protocols
- 8-channel Independent IO-Link Ports
- IP67 dust-proof, drip-proof design
- Easy to set via web browser



Advantage of IO-Link

IO-Link is a global standard communication protocol to connect with sensors / actuators, defined as IEC 61131-9. It is expected as an open network standard at the sensor level that contributes to reducing manufacturing downtime.

POINT 1

Possible to connect sensors from various manufacturers only with one cable

POINT 2

Possible to capture diagnosis information such as cable disconnections or device operating status

POINT 3

Enables error free device replacement, and quick restart

POINT 4

High compatibility with field networks

Ordering Information

CONPROSYS IO-Link Master (IO-Link port (Class A) 8ch, 2x LAN port)

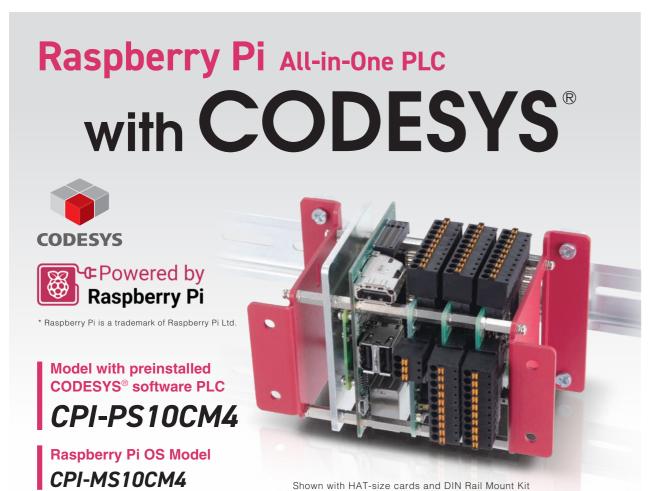
Specifications

	Item	Specifications	
	Transmission standard	100BASE-TX	
	Data rate	10/100Mbps	
	The number of ports	2	
	Connector	M12(D-coded, Female, 4-pin)	
LAN	LED	ACT(Orange), LINK(Green)	
	Support protocols	PROFINET(V2.33) EtherCAT CC-Link IE Field Basic EtherNet/IP(CT16) Modbus-TCP OPC UA	
	Transmission scheme	IO-Link protocol (Ver.1.0/Ver.1.1)	
	The number of ports	8	
	Connector	M12(A-coded, Female, 5-pin)*1	
	Communication speed	COM1: 4.8kbp, COM2: 38.4kbps, COM3: 230.4kbps	
IO-Link	Port class	Type A	
	Rated voltage	24VDC (typ.)	
	Max. load current	200mA/port *2	
	Isolation specification	Non-isolated	
	LED	A(Orange),ST(Green/Red), B(Orange)	
	Input type	Current source output (PNP output) support	
IO-Link (in SIO(DI)	Rated voltage	24VDC (typ.)	
mode)	Input current	5mA (typ.)	
	ON/OFF voltage	15VDC min. / 5VDC max. *3	
	Output type	Push-pull output *3	
IO-Link (in SIO(DI)	Rated voltage	24VDC (typ.)	
mode)	Output current	200mA/port *2	
	Output registance	3Ω max.	
IO-Link	Input type	Current source output (PNP output) support	
(Digital inputs for	Rated voltage	24VDC (typ.)	
pin 2)	Input current	2mA (typ.)	
	ON/OFF voltage	15VDC min. / 5VDC max. *3	
LED		ST(Green/Red), BF/NS/ERR(Green/Red), SF/ MS/RUN(Green/Red), SYS(Green, Orange)	
Switch		Mode setting switch, Address setting selection switch, Address setting switch×2, Protocol setting switch	

Item		Specifications		
	Rate input voltage	US : 24VDC (1.8A)		
	(current)	UA : 24VDC (0.1A)		
	Ma in d	US: 12A		
	Max. input current	UA:12A		
Power input *4*5		US : 20.4 to 26.4VDC		
	Input voltage range	UA : 20.4 to 26.4VDC		
	Device current	US : 0.2A(Max.)		
	comsumption	UA: 0.1A(Max.)		
	Connector	M12(L-coded, Male, 5(4+FE)pin)		
	Output voltage *6	US : US input voltage (Max.)		
	Output voltage "6	UA : UA input voltage (Max.)		
Power output *4	Max. output current	US:12A		
	*7	UA:12A		
	Connector	M12(L-coded, female, 5(4+FE)pin)		
Physical dimensions (W/D/H)		69.0 × 225.0 × 18.0 mm (2.72 × 8.86 × 0.71 in) (No projection included)		
Weight		600g/1.32lb		
Protective function		IP67 *8		
Installation	method	Installation with screws *9		
*1 Connect	tor pin 5 is left unconn	ected.		

- - \dot{r} 2 The total current of the C/Q, L+ line in all ports should be less than 1.6A.
- *3 Data 0 corresponds to Low level and Data 1 corresponds to High level.
- 4 Use power cable within 3meters.
- *5 UA power is unavailable with this product. It is not necessary to supply power to UA when you only use the device on its own.
- 6 The voltage input to the power input terminal is output as it is, but if the current from the output terminal is large, a voltage drop may occur due to the internal resistance.
- 7 The total current from the power output current, device consumption current, and output current to the IO-Link port should be supplied to the power supply input terminal.
- *8 Do not use this product immersed in water.
- *9 The commercial screws are required individually.

I Controller with CODESYS



High compatibility with Raspberry Pi 4

Raspberry Pi has shipped more than 60 million computers worldwide. This product achieves high compatibility with Raspberry Pi 4 using an embedded CM4 module. It is industrial grade, meeting requirements for RAS/RTC expansion, reliability, environmental resistance and long-term use.

Model CPI-PS10CM4 is preinstalled with CODESYS software PLC, used by more than 400 companies worldwide with over one million deployments each year. Allows programming





I/O expansion with HAT-size cards

A local bus makes I/O expansion easy. Our extensive HAT-size card range includes digital I/O, analog I/O and counter cards.

Our HAT-size card lineup is growing!



Industrial open networks supported

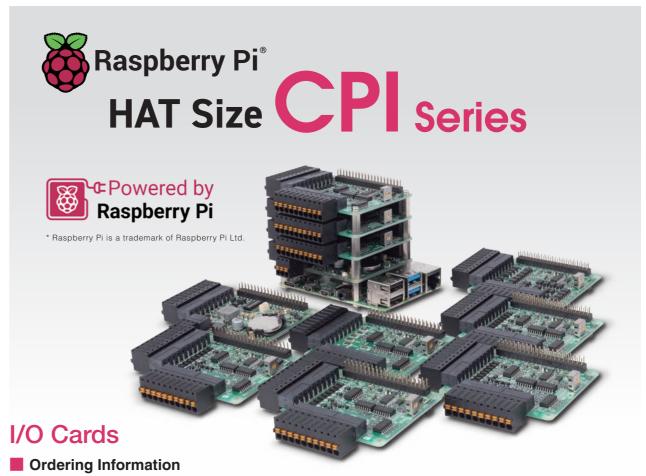
Preinstalled CODESYS®

Extensive industrial network communication functionality supporting EtherCAT, PROFINET, EtherNet/IP and Modbus. Built-in OPC UA server and Web HMI functionality. (SoftMotion is optional.)

*CPI-PS10CM4 only



I HAT Size I/O Cards



Model	Function Specifications			
CPI-RAS	Support for a wide range of power supply inputs (8 to 28 VDC), 5 VDC internal power supply 5 VDC external power supply output (with ON/OFF control), RTC (real-time clock) WDT (watchdog timer), Hardware monitor (CPU temperature / power supply voltage) LED lighting control (green/red), General digital I/O			
CPI-DIO-0808L	Isolated digital inputs 8ch and isolated digital outputs 8ch			
CPI-DIO-0808RL	Isolated digital inputs 8ch (negative-common) and isolated digital outputs 8ch (negative-common)			
CPI-DI-16L	Isolated digital inputs 16ch			
CPI-DO-16L	Isolated digital outputs 16ch			
CPI-DO-16RL	Isolated digital outputs 16ch (negative-common)			
CPI-RRY-16	Semiconductor relay outputs 16ch			
CPI-AI-1208LI	Isolated analog input 12-bit 8ch (Differential 4ch), Voltage input / Current input			
CPI-AO-1602LC	Isolated analog output 16-bit 2ch, Voltage output / Current output			
CPI-CNT-3201I	Optocoupler isolated input 32-bit up/down counter 1 ch, Single phase input/Two-phase input (A/B/Z)			

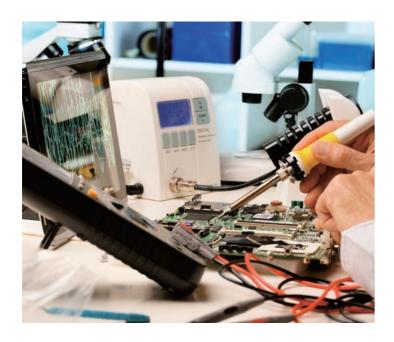
Options

Product Name	Model type	Description
Embedded power supply that can be mounted on a DIN rail	CPS-PWD-30AW24-01	Embedded power supply 30W (Input:100 to 240VDC, Output:24VDC 1.3A)
	CPS-PWD-90AW24-01	Embedded power supply 90W (Input:100 to 240VDC, Output:24VDC 3.8A)
DIN rail mounting kit	CPI-DIN01	Simple mounting onto DIN rails. Wall mounting and desktop installation are also supported.

Data Acquisition, Measurement and Control

Offering Multi-Faceted I/O Product Lineup to Meet Your Needs

Contec's extensive I/O product line offers more than 400 custom designed, developed & manufactured boards. Utilized the fields of manufacturing, measurement and control; these products are essential for testing, automated examination instrumentation, and research and development.





USB Module



This product features "USB (Universal Serial Bus)," a serial bus standard to connect peripheral devices to computer. Various functions can be added to PC with USB connector port.



PCI Express Card



This product features serial transfer bus architecture "PCI Express," which is successor of PCI bus. Various functions can be added to PC with PCI Express bus expansion slot.



PCI Card



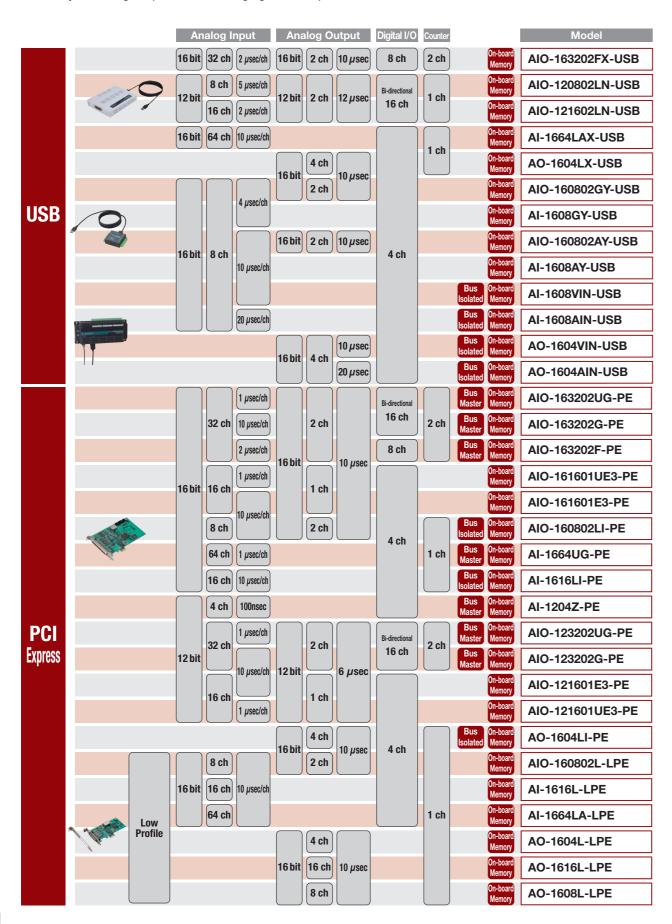
This product features "PCI (Peripheral Component Interconnect)," an industry standard bus architecture that communicates through PC and peripherals. Various functions can be added to PC with PCI bus expansion slot.

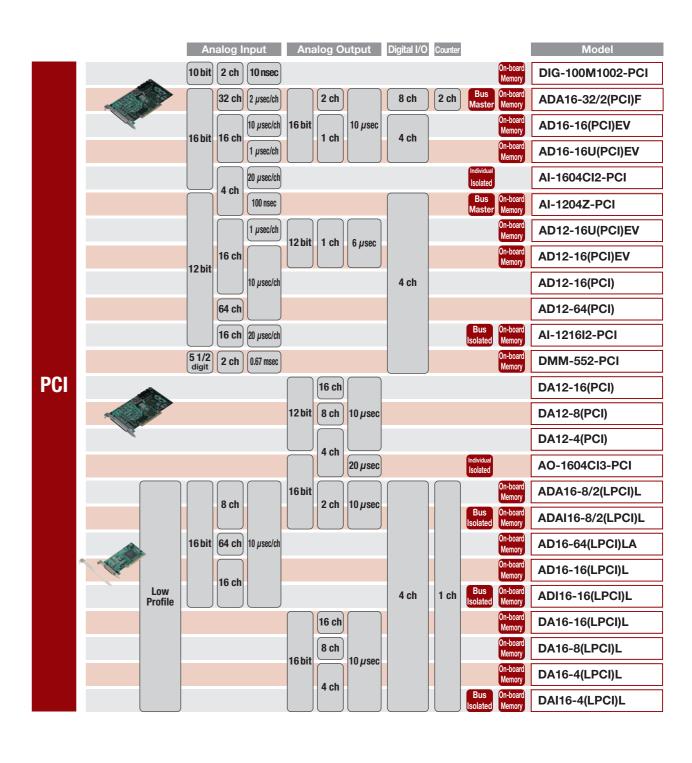
Analog I/OP.75
Digital I/OP.77
Counters P.79
Motion Controllers
Serial Communications
GPIB Communications
Software
Cables

I Analog I/O

Interface modules that convert analog signals into digital data.

The ability to convert analog signals to data (digital signals) and feed them to a computer allows the user to measure external events. Conversely, converting computer data to analog signals for output allows the user to control external devices.





Data Acquisition, Measurement and Control

■ Digital I/O

Interface boards that provide computers with digital signal I/O functions.

They monitor the status (ON/OFF) of relays, operating switches and measurement devices as well as controlling (ON/OFF) lamps, 7-segment display units and relays. These boards can also be used as an interface for conducting digital communication with controllers such as PLC or microcomputers.

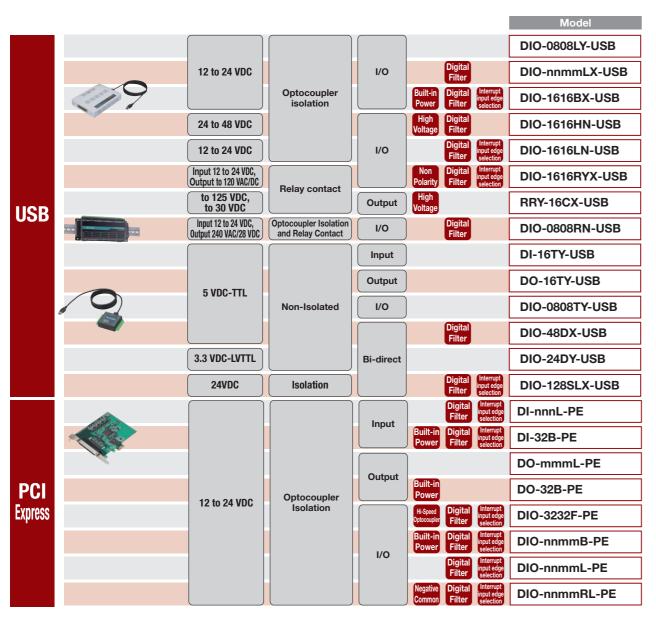
I/O Channels

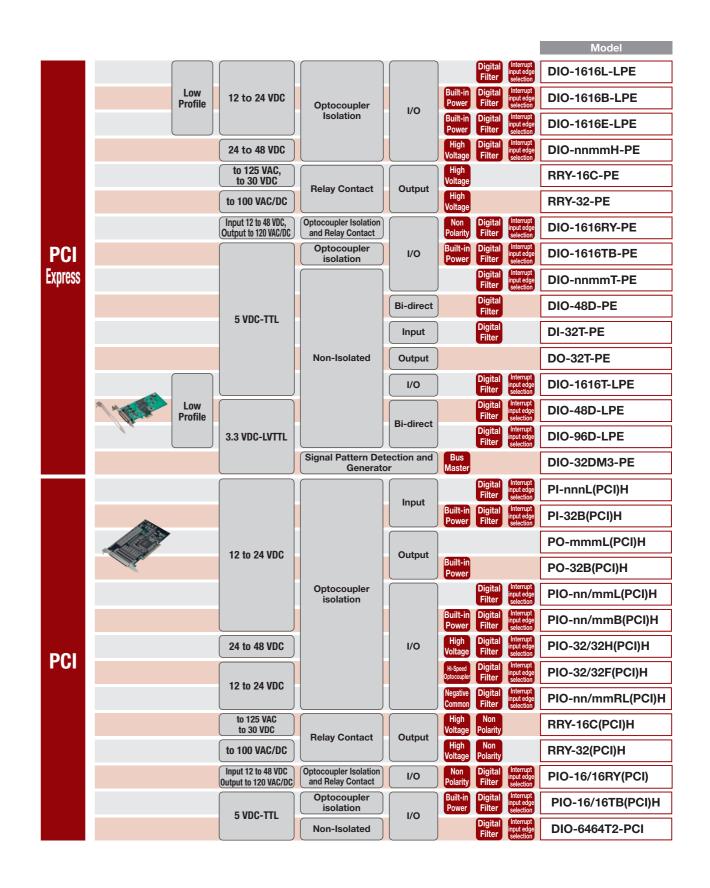
Input nnn

Maximum number of input channels (bits) nnn = 8, 16, 32, 64 or 128

mmm

Maximum number of output channels (bits) mmm = 8, 16, 32, 64 or 128

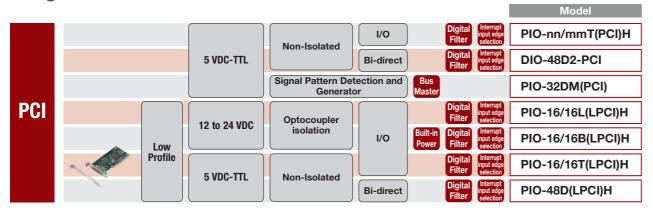




Data Acquisition, Measurement and Control

77 | 78

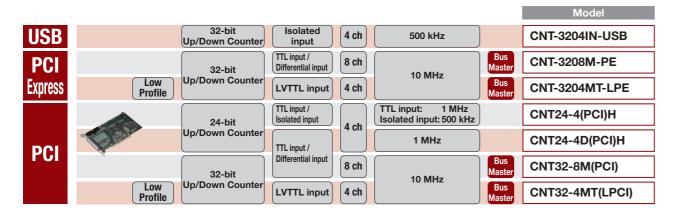
I Digital I/O



Counters

These cards communicate pulse train input and pulse number count functions to the PC.

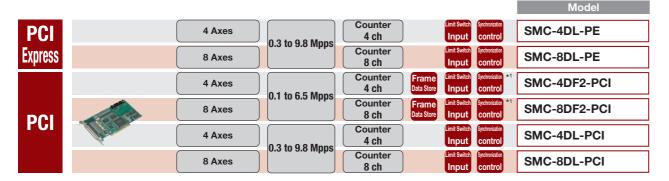
They calculate addition and/or subtraction of count values onboard and read out current count values when needed. They can connect to incremental rotary encoders, linear gauges, pulse output type flowmeters or power meters.



Motion Controllers

Enables PC controlled output of pulse train according to a specified pulse number and frequency.

Can automatically output control pulse which corresponds to operation parameters such as target position, speed and acceleration/ deceleration rate. Limit input functions [required for positioning control] are also provided. For use with pulse-input type stepping motors or servo motors.

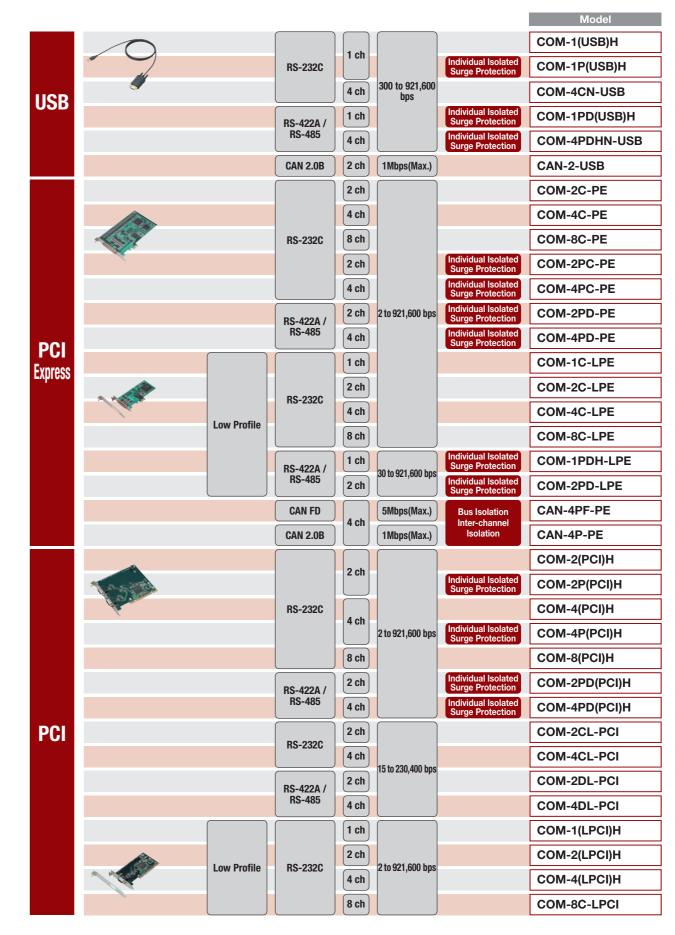


^{*1:} Compatible with both SMC-4DF-PCI and SMC-8DF2-PCI type cards.

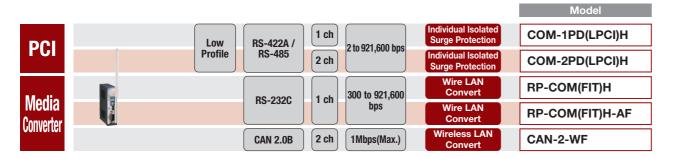
I Serial Communications

Provides PC with RS-232C/422A/485 serial communication ports.

Used as a communication interface with measurement devices, barcode readers, industrial AV equipment, UPS, printers and modems which are equipped with RS-232C/422A/485 serial communication ports.



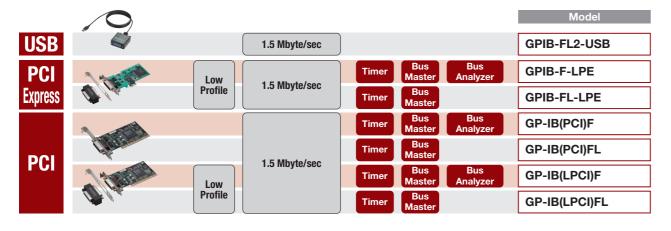
I Serial Communications



I GPIB Communications

Provide PCs with GPIB-compliant communication port(s).

These can be used as the communication interface for measurement devices equipped with GPIB communication ports as well as various other controllers.



Software

We provide all kinds of middleware for program development efficiency. In addition, all kinds of software are available such as various measurement application programs that can be used as genuine PC data loggers or electronic measuring devices from the first day.

API Programming Using Windows / Linux

Driver Library

API-PAC(W32)

The library software that provides CONTEC's measurement control device commands using OS-standard API. High-speed application software can be created that makes use of device characteristics in all kinds of programming languages including Visual Basic, Visual C and gcc.

Free download from Contec website



Easily Build a Measurement Application

.NET components for DAQfast measurement system development

DAQ-DNC-FE

A GUI-based measurement system development support tool compatible with the Visual Studio low-code integrated development environment. It contains a collection of components that are very useful for developing applications using Contec's wealth of measurement control devices in the PC-HELPER series (PCIe/PCI, USB, Ethernet) and the industrial IoT CONPROSYS™ nano series.

Free download from Contec website



Data Acquisition with LabVIEW

LabVIEW Data Acquisition Library

DAQ-LV-WIN

CONTEC's devices are LabVIEW compatible. Usable in the same way as LabVIEW standard data collection VI using the dedicated library DAQfast plug-in.

Free download from Contec website



Data Acquisition with Edgecross

Data collection library / DAQfast for Edgecross

DAQ-EC-AIO / DAQ-EC-DIO / DAQ-EC-CNT / DAQ-EC-MDB

A software that implements cooperation between Edgecross basic software platform and data from measurement control and remote I/O devices.

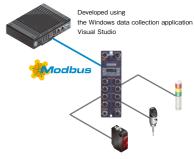
- * This library / middleware does not work alone. It is necessary to install an "Edgecross basic software for Windows" in advance. (Japan Only)
- * Requires purchase from Edgecross Marketplace

Edge Applications Monitor Operations Preventive maintenance Analysis data All Edge Computing Edge Computing Edge Coss Basic Software Monitor Operations Plug-in Data Model Management Security Data Collector In Enge controller OPC UA CONTRO SYST Med Controller CONPROSYST Med Controller CONPROSYST CONPROSYST Med Controller CONPROSYST
Data Acquisition with Fieldbus

DAQfast Modbus Communication Library

DAQ-LIBMB-WIN / DAQ-LIBMB-LNX

The master functions for Modbus communication are provided by the API, allowing communication control of a Modbus slave device from a PC.



Free download from Contec website

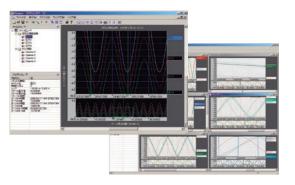
Graph Observation & Data Collection Tool

Data Logging Software

C-LOGGER

This is data logging software that is compatible with CONTEC analog input devices. C-LOGGER provides true data collection and monitoring function, such collected signal data graph drawing, zoom observation, file saving, and dynamic transfer to Excel (spreadsheet program). No additional programming is required.

Free download from Contec website



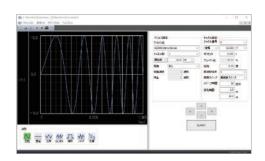
Waveform Generation & Output Tool

Waveform Generator

C-WaveformGenerator

No programming required. Contains 6 basic waveforms (DC, sine wave, triangular wave, square wave, ramp wave, and noise) that can be used immediately.

Free download from Contec website



Pattern Generation and Logic Analysis Tool

Pattern Generator / Logic Analyzer

C-LogicDesigner

Logic pattern creation functions based on an intuitive and easy-tounderstand GUI.High-speed logic analyzer functions with sampling at up to 50MHz and pulse generator functions.

Free download from Contec website



33 | 84

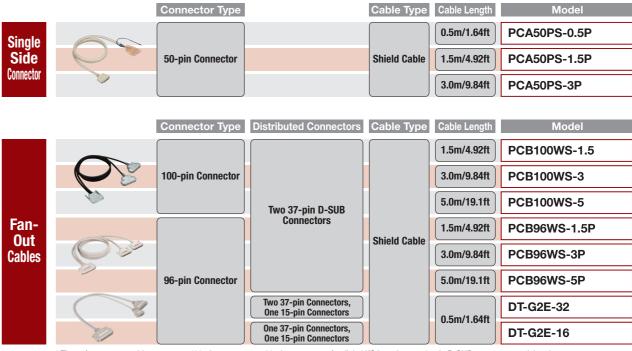
Cables

Cable with different connectors are designed to connect our interface cards and units to external world.

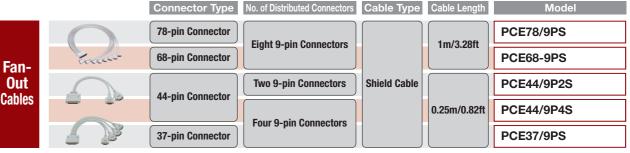
Note 1: Each cable connects one connector of the board/unit. For the board/unit with two connectors, two cables are required.

Note 2: A longer cable will have a larger resistance, customer needs to select a suitable length of cable. Normally a three meters or longer cable is not suitable to connect external analog signals to the analog I/O boards. It is user's responsibility to select a connecting cable for the application system.

		Connector Type	Cable Typ	e Cable Length	Model
				0.5m/1.64ft	PCB100PS-0.5
		100-pin Connector		1.5m/4.92ft	PCB100PS-1.5
				3.0m/9.84ft	PCB100PS-3
			Shield Cab	5.0m/19.1ft	PCB100PS-5
				0.5m/1.64ft	PCB96PS-0.5P
				1.5m/4.92ft	PCB96PS-1.5P
				3.0m/9.84ft	PCB96PS-3P
		96-pin Connector		5.0m/19.1ft	PCB96PS-5P
Two Side				1.5m/4.92ft	PCB96P-1.5
Connectors			Flat Cable	3.0m/9.84ft	PCB96P-3
				5.0m/19.1ft	PCB96P-5
		68-pin Connector		0.5m/1.64ft	PCB68PS-0.5P
				1.5m/4.92ft	PCB68PS-1.5P
				3.0m/9.84ft	PCB68PS-3P
	() () () () () () () () () ()	50-pin Connector	Shield Cab	le 0.5m/1.64ft	PCB50PS-0.5P
				1.5m/4.92ft	PCB50PS-1.5P
				3.0m/9.84ft	PCB50PS-3P
				5.0m/19.1ft	PCB50PS-5P
		100-pin Connector	Flat Cable	1.5m/4.92ft	PCA100P-1.5
				3.0m/9.84ft	PCA100P-3
				0.5m/1.64ft	PCA96PS-0.5P
			Shield Cab	1.5m/4.92ft	PCA96PS-1.5P
Single				3.0m/9.84ft	PCA96PS-3P
Side Connector		96-pin Connector		5.0m/19.1ft	PCA96PS-5P
- onmoutur				1.5m/4.92ft	PCA96P-1.5
	C.		Flat Cable		PCA96P-3
				5.0m/19.1ft	PCA96P-5
	0	68-pin Connector	Shield Cab	- (PCA68PS-0.5P
				1.5m/4.92ft	PCA68PS-1.5P



* These fan-out type cables convert a 100-pin connector or 96-pin connector of a digital I/O board to two 37-pin D-SUB connectors and the pin assignment is the same as our 37-pin D-SUB connector type digital I/O boards.



^{*} These fan-out cables convert a 78/68/44/37-pin connector of a serials communication board to RS-232C standard 9-pin D-SUB connectors

I Screw Terminal Blocks

The spring-up type terminal blocks help users to wire the external devices to Contec PCI Express / PCI bus interface boards through the connecting cables. The blocks equipped 3mm / 0.12' spring-up type screws and are 35mm /1.38' DIN-rail mountable.

Spring-up type screw mechanism An internal spring retains the terminal screw by lifting it up when it is loosened and removed from the screw hole. This allows efficient wiring and prevents accidental dropping of terminal screw.



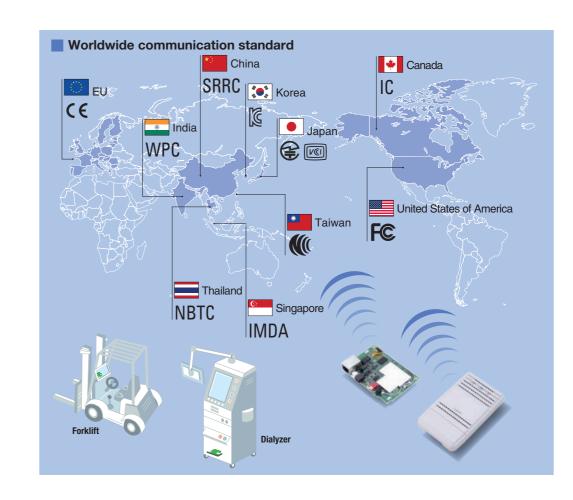
		Connector Type	Spec. of Screw Terminal	No. of Terminals	Model
		100-pin Connector	M3 screw terminal	100	EPD-100A
		96-pin Connector		96	EPD-96A
Wiring Blocks		68-pin Connector		68	EPD-68A
		50-pin Connector		50	EPD-50A
	111	37-pin Connector		37	EPD-37A

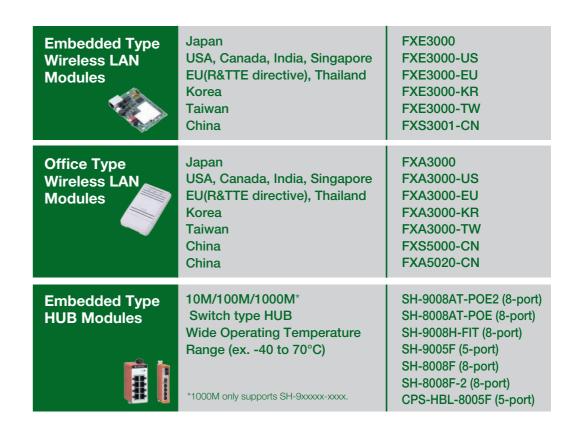
Communication Industrial LAN and Wireless

Providing Custom Communication Products that Deliver High Reliability and Superior Functionality

Contec's network products allow our customers to provide safe and convenient communication network environments in locations where security is a necessity (offices, schools, factories and logistics systems). Our expertise and strength in the design and development of industrial products allows us to ensure high reliability and functionality of our network products and meet our customer's every customization requirements.







MEMO	

Taking Contec Quality Global

Contec's global presence consists of multiple R&D, Manufacturing, Sales & Procurement locations that strategically placed around the world. The Contec network allows us to instantly meet our customer's needs with quality products and solutions.



