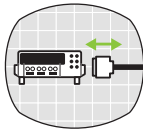


Serial Communications

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.

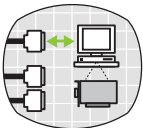


Application

Communicating with measurement devices / controllers

Description

RS-232C / RS-422A / RS-485 communication



Application

Providing additional communication ports

Description

Serial port

Pictograms

Bus Specifications

PCI Express

Product is PCI Express standard compliant and can be used in the computer equipped with PCI Express bus expansion slot.

PCI

Product is PCI standard compliant and can be used in the computer equipped with PCI Bus slot.

USB 2.0

Product is USB standard compliant and can be used in the computer equipped with USB 2.0/1.1 ports. Supports high-speed mode (12 Mbps).

Card Bus

Product supports CardBus that is a 32-bit PC card standard bus and can be used in the notebook computer equipped with a CardBus-compliant PC card slot.

Board Size

Low Profile

Product is PCI standard / Low Profile compliant. A bracket for standard-size PCI slots is provided.

Supported Connectors

78-pin D-SUB

37-pin D-SUB

9-pin D-SUB

44-pin D-SUB

25-pin D-SUB

Indicates the number of pins and shapes of connectors used for external connection. The supported cables and accessories will vary depending on these specifications.

CONTEC provides a wide variety of cables and accessories to suit your needs, such as Branch cables for 9-pin / 25-pin D-SUB, etc.

Cables and Connectors

N-33

Communication standard / Number of channels

RS-232C X ch

Equipped with the indicated number of RS-232C compliant ports

RS-422A/485 X ch

Equipped with the indicated number of RS-422A and RS-485 compliant ports

Maximum Transfer Speed

XXX bps

Maximum transfer speed that can be set

Software

Windows Driver

Standard COM driver for Windows (COM Setup Disk) is included.

Linux Driver

Standard COM driver for Linux (COM Setup Disk) is included.

Standard COM Driver / COM Setup Disk

Software for installing a serial communication board (card) in the operating system. Serial communication devices installed using COM Setup Disk will be recognized as standard PC serial ports (COM1, COM2, ...) when using Windows or Linux. Commercial applications and programming language standard commands that support serial ports can then be used.

Points

Individual Isolated

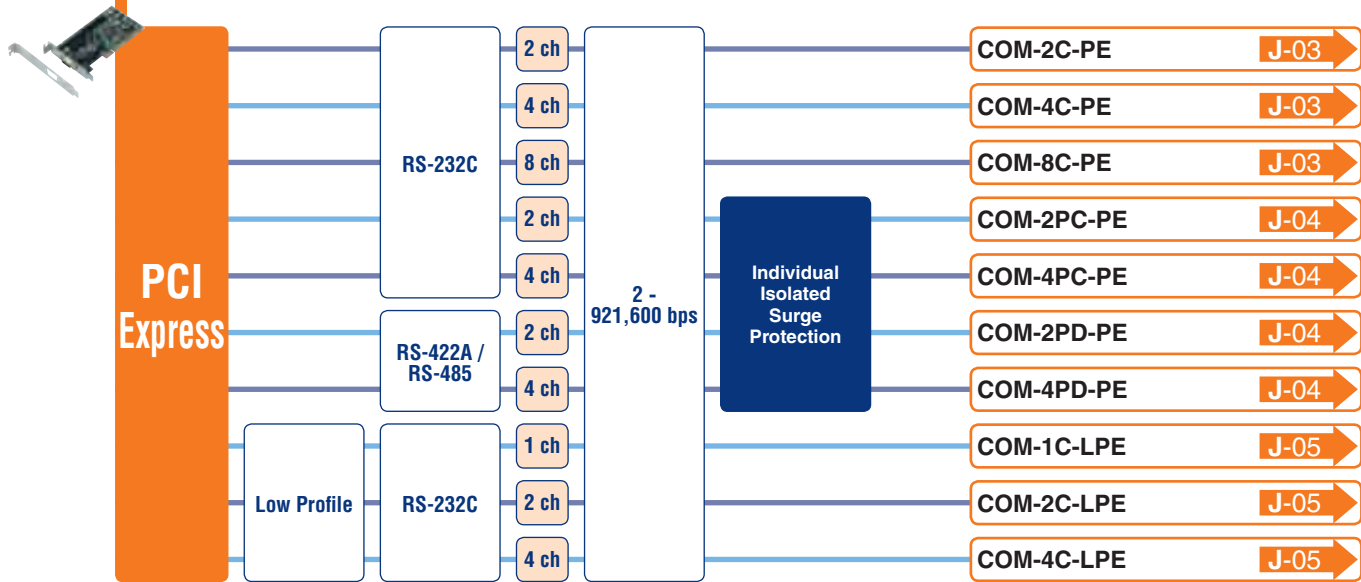
Features electric isolation between each channel as well as between communication lines and the PC. This prevents damage and malfunction from both signal interference between channels and communication line noise.

Surge Protection

All communication lines are equipped with surge protection circuitsto prevent damage and malfunction caused by surge voltage and incoming current.

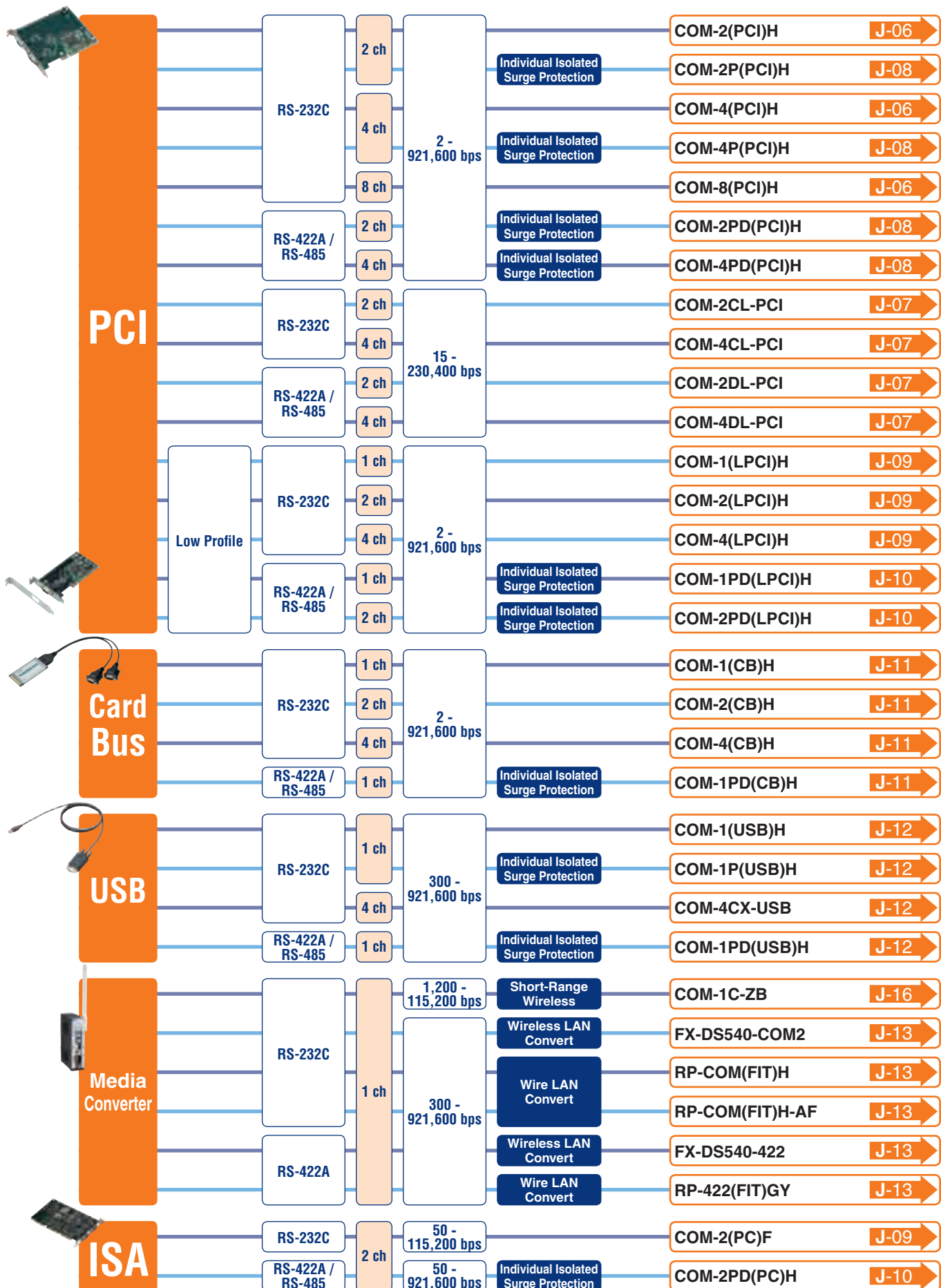
Product Lineup

You can choose from a variety of models according to your desired bus, communication standard and number of channels.



Global Site: www.contec.com

Serial Communications

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Software

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Product Lineup

PCI Express

PCI

ISA

PC Card

USB

Media Converter

Please see page N-33 for optional accessories and cables/connectors, and page M-01 for software.

Serial Communications

PCI Express

9-pin
D-SUB x2

RS-232C
2 ch

921.6 K
bps

Individual
Isolated

Surge
Protection



Windows Driver

Linux Driver

2 Port Isolated RS-232C COM-2PC-PE

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Channels and PCs are individually isolated / signal lines are surge protected.
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte buffer memory (both transmission and reception) provided for each channel
- 9-pin D-SUB connector



PCI Express

37-pin
D-SUB

RS-232C
4 ch

921.6 K
bps

Individual
Isolated

Surge
Protection



Windows Driver

Linux Driver

4 Port Isolated RS-232C COM-4PC-PE

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Channels and PCs are individually isolated / signal lines are surge protected.
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte buffer memory (both transmission and reception) provided for each channel



PCI Express

9-pin
D-SUB x2

RS-422A/485
2 ch

921.6 K
bps

Individual
Isolated

Surge
Protection

Windows Driver

Linux Driver

2 Port Isolated RS-422A/485 COM-2PD-PE

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Channels and PCs are individually isolated / signal lines are surge protected.
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte buffer memory (both transmission and reception) provided for each channel



PCI Express

37-pin
D-SUB

RS-422A/485
4 ch

921.6 K
bps

Individual
Isolated

Surge
Protection

Windows Driver

Linux Driver

4 Port Isolated RS-422A/485 COM-4PD-PE

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Channels and PCs are individually isolated / signal lines are surge protected.
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte buffer memory (both transmission and reception) provided for each channel



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Product Lineup

PCI Express

PCI

ISA

PC Card

USB

Media Converter

Model	COM-2PC-PE	COM-4PC-PE	COM-2PD-PE	COM-4PD-PE
Interface Type	RS-232C (Asynchronous serial transmission)		RS-422A/RS-485 (Async), Full-duplex or Half-duplex communication mode	
Number of Channels	2	4	2	4
Speed	2 - 921,600 bps*1*2			
Data Type	5/6/7/8 Bit, 1/1.5/2 Stop Bit*1			
Parity Check	Even, Odd, Non-parity*1			
Controller	162850 compliant (FIFO buffer: I/O 128-byte per channel)			
Interrupts	1*3			
Wiring Distance	15 m (Max.)		1200 m (Max.)	
Isolation Type	Channel Isolation & Bus Isolation			
Isolation Voltage	Channel Isolation: 1000 VDC, Bus Isolation: 1000 VDC	Channel Isolation: 500 VDC, Bus Isolation: 1000 VDC	Channel Isolation: 1000 VDC, Bus Isolation: 1000 VDC	Channel Isolation: 500 VDC, Bus Isolation: 1000 VDC
I/O Address	Any 32-byte boundary			
Power Consumption (Max.)	3.3 VDC 950 mA	3.3 VDC 1600 mA	3.3 VDC 1100 mA	3.3 VDC 1600 mA
Bus / Dimensions (mm)	PCI Express Base Specification 1.0a x1 / 121.69 (L) x 110.18 (H)	PCI Express Base Specification 1.0a x1 / 169.33 (L) x 110.18 (H)	PCI Express Base Specification 1.0a x1 / 121.69 (L) x 110.18 (H)	PCI Express Base Specification 1.0a x1 / 169.33 (L) x 110.18 (H)
Included Cable Length	-			
Connector	9-pin D-SUB connector: DECLJ9PAF-20L9E [JAE, Male type] or equivalent	37-pin D-SUB connector: DCLC-J37SAF-20L9E [JAE, Female type] or equivalent	9-pin D-SUB connector: DECLJ9PAF-20L9E [JAE, Male type] or equivalent	37-pin D-SUB connector: DCLC-J37SAF-20L9E [JAE, Female type] or equivalent
Options	Software	API-PAC(W32), ACX-PAC(W32)		
	Accessories	-	CCU-78F/25M*4	-
	Cables / Connectors	RSS-9M/F, RSC-9F, RSS-25M/9F, RSC-25F/9F, CN5-D9F	PCE37/9PS, PCE37/25PS, CN5-D37M	CN5-D9F
				PCE37/9PS, CN5-D37M

Note:

*1: Selectable speed : 15 to 921,600 bps, using standard COM driver software setup and API-PAC(W32).

*2: Data transmission at high speed may not be performed normally depending on the environment such as types of external devices and cables.

*3: A single interrupt signal "INTA" is output as a collection of interrupt input signals from all channels.

*4: RSS-78M/37M is required separately.

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.

Please see page N-33 for optional accessories and cables/connectors, and page M-01 for software.

Serial Communications



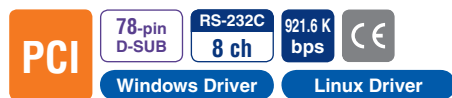
2 Port RS-232C COM-2(PCI)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 9-pin D-SUB connector
- 128-byte FIFO buffer (both transmission and reception) provided for each channel



4 Port RS-232C COM-4(PCI)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel



8 Port RS-232C COM-8(PCI)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel



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Product Lineup

PCI Express

PCI

ISA

PC Card

USB

Media Converter

COM-2(PCI)H is supported with Realtime OS:INtime. Please see page M-20 for INtime.

Model	COM-2(PCI)H	COM-4(PCI)H	COM-8(PCI)H
Interface Type	RS-232C (Async.)		
Number of Channels	2	4	8
Speed	2 - 921,600 bps*1*2		
Data Type	5/6/7/8 Bit, 1/1.5/2 Stop Bit		
Parity Check	Even, Odd, Non-parity		
Controller	162850 compliant (FIFO buffer: I/O 128-byte per channel)		
Interrupts	1*3		
Wiring Distance	15 m (Max.)		
Isolation Type	-		
Isolation Voltage	-		
I/O Address	Any 32-byte boundary		Any 64-byte boundary
Power Consumption (Max.)	5 VDC 100 mA 3.3 VDC 100 mA	5 VDC 150 mA 3.3 VDC 150 mA	5 VDC 250 mA 3.3 VDC 250 mA
Bus / Dimensions (mm)	PCI (32 bit, 33 MHz, Universal key type supported *) / 121.69 (L) x 105.68 (H)		
Included Cable Length	-		
Connector	9-pin D-SUB connector: DELC-J9PAF-20L9 [JAE, Male type] or equivalent	37-pin D-SUB connector: DCLC-J37SAF-20L9 [JAE, Female type] or equivalent	78-pin D-SUB connector [Female type]
Software	API-PAC(W32), ACX-PAC(W32)		
Options	-		
Accessories	-		
Cables / Connectors	RSS-9M/F, RSC-9F, RSS-25M/9F, RSC-25F/9F, CN5-D9F	CCU-78F/25M*5, RSS-78M/37M PCE37/9PS, PCE37/25PS, CN5-D37M	CCU-78F/25M*6, RSS-78M PCE78/9PS, PCE78/25PS, CN5-D78M

Note:

*1: Selectable speed, 15 to 921,600 bps, using standard COM driver software setup and API-PAC(W32)
 *2: Data transmission at high speed may not be performed normally depending on the environment including the type of status of connected material or cable and environment.
 *3: A single interrupt signal "INTA" is output as a collection of interrupt input signals from all channels. *4: Power voltage is set by jumper. (5 VDC or 3.3 VDC)
 *5: Optional cable RSS-78M/37M is required. *6: Optional cable RSS-78M is required.

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.

Serial Communications

Please see page N-33 for optional accessories and cables/connectors.

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PCI

9-pin
D-SUB

RS-232C
2 ch

230.4 K
bps

Windows Driver

2 Port RS-232C COM-2CL-PCI

- Functions as a standard COM port when used under Windows
- Up to 16 boards can be added with settings of COM1 to 256.
- 64-byte buffer memory (both transmission and reception) provided for each channel
- 9-pin D-SUB connector



PCI

37-pin
D-SUB

RS-232C
4 ch

230.4 K
bps

Windows Driver

4 Port RS-232C COM-4CL-PCI

- Functions as a standard COM port when used under Windows
- Up to 16 boards can be added with settings of COM1 to 256.
- 64-byte buffer memory (both transmission and reception) provided for each channel



Branch cable included

PCI

9-pin
D-SUB x2

RS-422A/485
2 ch

230.4 K
bps

Windows Driver

2 Port Non-isolated RS-422A/485 COM-2DL-PCI

- Functions as a standard COM port when used under Windows
- Up to 16 boards can be added with settings of COM1 to 256.
- 64-byte buffer memory (both transmission and reception) provided for each channel



PCI

37-pin
D-SUB

RS-422A/485
4 ch

230.4 K
bps

Windows Driver

4 Port Non-isolated RS-422A/485 COM-4DL-PCI

- Functions as a standard COM port when used under Windows
- Up to 16 boards can be added with settings of COM1 to 256.
- 64-byte buffer memory (both transmission and reception) provided for each channel



Branch cable included

J-07

Product Lineup

PCI Express

PCI

ISA

PC Card

USB

Media Converter

Model	COM-2CL-PCI	COM-4CL-PCI	COM-2DL-PCI	COM-4DL-PCI
Interface Type	RS-232C (Asynchronous serial transmission)		RS-422A/RS-485 (Async.), Full-duplex or Half-duplex communication mode	
Number of Channels	2	4	2	4
Speed	15 - 230,400 bps*1*2			
Data Type	5/6/7/8 Bit, 1/1.5/2 Stop Bit*1			
Parity Check	Even, Odd, Non-parity*1			
Controller	17152 compliant (FIFO buffer: I/O 64-byte per channel)	17154 compliant (FIFO buffer: I/O 64-byte per channel)	17152 compliant (FIFO buffer: I/O 64-byte per channel)	17154 compliant (FIFO buffer: I/O 64-byte per channel)
Interrupts	1*3			
Wiring Distance	15 m (Max.)		1200 m (Max.)	
Isolation Type	-			
Isolation Voltage	-			
Memory Address	Any 1024-byte boundary	Any 2048-byte boundary	Any 1024-byte boundary	Any 2048-byte boundary
Power Consumption (Max.)	5 VDC 100 mA	5 VDC 120 mA	5 VDC 340 mA	5 VDC 640 mA
Bus / Dimensions (mm)	PCI (32 bit, 33 MHz **) / 121.69 (L) x 88.0 (H)			
Connector	9-pin D-SUB connector: 2031-2-9-P [gallant, Male type] or equivalent	37-pin D-SUB connector: 2031-2-37-S [gallant, Female type] or equivalent	9-pin D-SUB connector: 2031-2-9-P [gallant, Male type] or equivalent	37-pin D-SUB connector: 2031-2-37-S [gallant, Female type] or equivalent
Options	Software	ACX-PAC(W32)		
	Accessories	-	CCU-78F/25M*5, RSS-78M/37M	-
	Cables / Connectors	RSS-9M/F, RSC-9F, RSS-25M/9F, RSC-25F/9F, CN5-D9F	PCE37/9PS, PCE37/25PS, CN5-D37M	CN5-D9F

Note:

- *1: Selectable speed using software
 *2: Data transmission at high speed may not be performed normally depending on the environment such as types of external devices and cables.
 *3: A single interrupt signal "INTA" is output as a collection of interrupt input signals from all channels.
 *4: This board requires power supply at +5 V from an expansion slot (it does not work on a machine with a +3.3 V power supply alone).
 *5: RSS-78M/37M is required separately.

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.

Please see page N-33 for optional accessories and cables/connectors, and page M-01 for software.

Serial Communications

PCI 9-pin D-SUB x2 RS-232C 2 ch 921.6 K bps Individual Isolated Surge Protection CE

Windows Driver Linux Driver

2 Port Isolated RS-232C COM-2P(PCI)H

- Channels and PCs are individually isolated. All communication lines are surge protected.
- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- 9-pin D-SUB connector



PCI 37-pin D-SUB RS-232C 4 ch 921.6 K bps Individual Isolated Surge Protection CE

Windows Driver Linux Driver

4 Port Isolated RS-232C COM-4P(PCI)H

- Channels and PCs are individually isolated. All communication lines are surge protected.
- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel

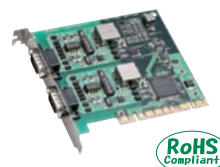


PCI 9-pin D-SUB x2 RS-422A/485 2 ch 921.6 K bps Individual Isolated Surge Protection CE

Windows Driver Linux Driver

2 Port Isolated RS-422A/485 COM-2PD(PCI)H

- 2 RS-422A/RS485-compliant channels
- On-board isolated circuit provides safe communication, even over long distances
- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel



PCI 37-pin D-SUB RS-422A/485 4 ch 921.6 K bps Individual Isolated Surge Protection CE

Windows Driver Linux Driver

4 Port Isolated RS-422A/485 COM-4PD(PCI)H

- 4 RS-422A/RS485-compliant channels
- On-board isolated circuit provides safe communication, even over long distances
- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel



COM-2PD(PCI)H is supported with Realtime OS:INTIME. Please see page M-20 for INTIME.

Model	COM-2P(PCI)H	COM-4P(PCI)H	COM-2PD(PCI)H	COM-4PD(PCI)H
Interface Type	RS-232C (Async. & Isolated)		RS-422A/RS-485 (Isolated) Asynchronous serial transmission (Full duplex/Half duplex)	
Number of Channels	2	4	2	4
Speed	2 - 921,600 bps*1*2			
Data Type	5/6/7/8 Bit, 1/1.5/2 Stop Bit			
Parity Check	Even, Odd, Non-parity			
Controller	162850 compliant (FIFO buffer: I/O 128-byte per channel)			
Interrupts	1*3			
Wiring Distance	15 m (Max.)		1200 m (Max.)	
Isolation Type	Channel Isolation & Bus Isolation			
Isolation Voltage	Channel Isolation: 1000 VDC, Bus Isolation: 1000 VDC	Channel Isolation: 500 VDC, Bus Isolation: 1000 VDC	Channel Isolation: 1000 VDC, Bus Isolation: 1000 VDC	Channel Isolation: 500 VDC, Bus Isolation: 1000 VDC
I/O Address	Any 32-byte boundary			
Power Consumption (Max.)	5 VDC 600 mA	5 VDC 1000 mA	5 VDC 550 mA	5 VDC 950 mA
Bus / Dimensions (mm)	PCI (32 bit, 33 MHz, Universal key type supported**) / 121.69 (L) x 105.68 (H)			
Included Cable Length	-			
Connector	9-pin D-SUB connector: DELC-J9PAF-20L9 (JAE, Male type) or equivalent	37-pin D-SUB connector: DCLC-J37SAF-20L9 (JAE, Female type) or equivalent	9-pin D-SUB connector: DELC-J9PAF-20L9 (JAE, Male type) or equivalent	37-pin D-SUB connector: DCLC-J37SAF-20L9 (JAE, Female type) or equivalent
Options	Software	API-PAC(W32), ACX-PAC(W32)		
	Accessories	-	CCV-78F/25M*5, RSS-78M/37M	-
	Cables / Connectors	RSS-9M/F, RSC-9F, RSS-25M/9F, RSC-25F/9F, CN5-D9F	PCE37/9PS, PCE37/25PS, CN5-D37M	CN5-D9F

*1: Selectable speed, 15 to 921,600 bps, using standard COM driver software setup and API-PAC(W32).

*2: Data transmission at high speed may not be performed normally depending on the environment such as types of external devices and cables.

*3: A single interrupt signal "INTA" is output as a collection of interrupt input signals from all channels.

*4: This board requires power supply at +5 V from an expansion slot (it does not work on a machine with a +3.3 V power supply alone). *5: RSS-78M/37M is required separately.

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PCI

ISA

PC Card

USB

Media Converter

Serial Communications

Please see page N-33 for optional accessories and cables/connectors, and page M-01 for software.

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PCI

Low
Profile

9-pin
D-SUB

RS-232C
1 ch

921.6 K
bps

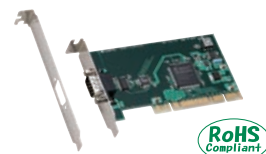


Windows Driver

Linux Driver

1 Port RS-232C COM-1(LPCI)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- 9-pin D-SUB connector
- Low Profile PCI-compliant (includes bracket for use in standard PCI slot)



PCI

Low
Profile

44-pin
D-SUB

RS-232C
2 ch

921.6 K
bps



Windows Driver

Linux Driver

2 Port RS-232C COM-2(LPCI)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- Low Profile PCI-compliant (includes bracket for use in standard PCI slot)



PCI

Low
Profile

44-pin
D-SUB

RS-232C
4 ch

921.6 K
bps



Windows Driver

Linux Driver

4 Port RS-232C COM-4(LPCI)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- Low Profile PCI-compliant (includes bracket for use in standard PCI slot)



ISA

9-pin
D-SUB

RS-232C
2 ch

115.2 K
bps



Windows Driver

2 Port RS-232C COM-2(PC)F



- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- Compatible mode available as standard COM port and enhanced mode operated under our unique control method
- Included sample programs
- 9-pin D-SUB connector



J-09

Product Lineup

PCI Express

PCI

ISA

PC Card

USB

Media Converter

Model	COM-1 (LPCI)H	COM-2(LPCI)H	COM-4(LPCI)H	COM-2(PC)F
Interface Type	RS-232C (Async.)			
Number of Channels	1	2	4	2
Speed	2 - 921,600 bps ^{*1*}			50 - 115,200 bps
Data Type	5/6/7/8 Bit, 1/1.5/2 Stop Bit			
Parity Check	Even, Odd, Non-parity			
Function Setting	-			Select and set any of standard COM1 - COM4
Controller	162850 compliant (FIFO buffer: I/O 128-byte per channel)			16550 or equivalent
Interrupts	1 ^{*3}			Compatible mode: Two of IRQ 3 - 7, 9 - 12, 14 or 15 Enhanced mode: One of IRQ 3 - 7, 9 - 12, 14 or 15
Wiring Distance	15 m (Max.)			
Isolation Type	-			
Isolation Voltage	-			
I/O Address	Any 32-byte boundary			Any 16-byte boundary
Power Consumption (Max.)	5 VDC 100 mA 3.3 VDC 100 mA		5 VDC 150 mA 3.3 VDC 150 mA	5 VDC 420 mA, +12 VDC 60 mA, -12 VDC 50 mA
Bus / Dimensions (mm)	PCI (32 bit, 33 MHz, Universal key type supported**) / 121.69 (L) x 63.41 (H)			ISA AT Bus / 163.0 (L) x 107.0 (H)
Included Cable Length	-			
Connector	9-pin D-SUB connector: DELCL-J9PAF-20L9 [JAE, Male type] or equivalent	44-pin D-SUB connector: 103A-44FGTBBB3 [COXOC, Female type] or equivalent		9-pin D-SUB connector: DELCL-J9PAF-20L9 [JAE, Male type] or equivalent
Software	API-PAC(W32), ACX-PAC(W32)			
Options	Accessories -			
Cables / Connectors	RSS-9M/F, RSC-9F, RSS-25M/9F, RSC-25F/9F, CN5-D9F	PCE44/9P2S, CN5-D44M	PCE44/9P4S, CN5-D44M	RSS-9M/F, RSC-9F, RSS-25M/9F, RSC-25F/9F, CN5-D9F

Note:

^{*1}: Selectable speed, 15 to 921,600 bps, using standard COM driver software setup and API-PAC(W32)

^{*2}: Data transmission at high speed may not be performed normally depending on the environment including the type of status of connected material or cable and environment.

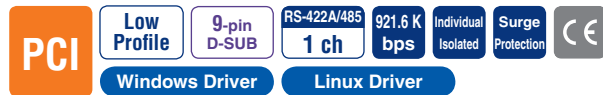
^{*3}: A single interrupt signal "INTA" is output as a collection of interrupt input signals from all channels.

^{*4}: Power voltage is set by jumper. (5 VDC or 3.3 VDC)

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.

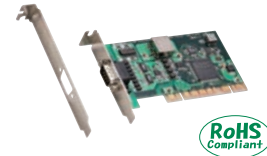
Please see page N-33 for optional accessories and cables/connectors, and page M-01 for software.

Serial Communications



1 Port Isolated RS-422A/485 COM-1PD(LPCI)H

- 1 RS-422A/RS485-compliant channels
- On-board isolated circuit provides safe communication, even over long distances
- Functions as a standard COM port when used under Windows or Linux
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- Low Profile PCI-compliant (includes bracket for use in standard PCI slot)



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2 Port Isolated RS-422A/485 COM-2PD(LPCI)H

- 2 RS-422A/RS485-compliant channels
- On-board isolated circuit provides safe communication, even over long distances
- Functions as a standard COM port when used under Windows or Linux
- Up to 16 boards can be added with settings of COM1 to 256.
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- Low Profile PCI-compliant (includes bracket for use in standard PCI slot)



2 Port Isolated RS-422A/485 COM-2PD(PC)H



- 2 RS-422A/RS485-compliant channels
- PCs are individually isolated. / signal lines are surge protected.
- Compatible mode available as standard COM port and enhanced mode operated under our unique control method
- Included sample programs



J-10

Model	COM-1PD(LPCI)H	COM-2PD(LPCI)H	COM-2PD(PC)H	
Interface Type	RS-422A/RS-485 (Isolated) Asynchronous serial transmission (Full duplex/Half duplex)		RS-422A, RS-485	
Number of Channels	1	2		
Speed	2 - 921,600 bps*1*2		Compatible mode: 50 - 115,200 bps Enhanced mode: 50 - 921,600 bps	
Data Type	5/6/7/8 Bit, 1/1.5/2 Stop Bit			
Parity Check	Even, Odd, Non-parity			
Function Setting	-		Set standard COM (COM1 - COM4)	
Controller	162850 compliant (FIFO buffer: I/O 128-byte per channel)		16550 or equivalent	
Interrupts	1*3		Compatible mode: Two of IRQ 3 - 7, 9 - 12, 14 or 15 Enhanced mode: One of IRQ 3 - 7, 9 - 12, 14 or 15	
Wiring Distance	1200 m (Max.)			
Isolation Type	Bus Isolation	Channel Isolation & Bus Isolation	Bus Isolation	
Isolation Voltage	Bus Isolation: 300 VDC	Channel Isolation: 300 VDC, Bus Isolation: 300 VDC	1000 VDC	
I/O Address	Any 32-byte boundary		Any 16-byte boundary	
Power Consumption (Max.)	5 VDC, Terminator OFF: 200 mA / Terminator ON: 300 mA	5 VDC, Terminator OFF: 300 mA (Max.) / Terminator ON: 550 mA (Max.)	5 VDC 480 mA	
Bus / Dimensions (mm)	PCI (32 bit, 33 MHz, Universal key type supported**) / 121.69 (L) x 63.41 (H)		ISA AT Bus / 163.0 (L) x 122.0 (H)	
Included Cable Length	-			
Connector	9-pin D-SUB connector: DELC-J9PAF-20L9 [JAE, Male type] or equivalent	44-pin D-SUB connector: 103A-44FGTBBB3 [COXOC, Female type] or equivalent	9-pin D-SUB connector: DELC-J9PAF-20L9 [JAE, Male type] or equivalent	
Software	API-PAC(W32), ACX-PAC(W32)			
Options	Accessories -			
Cables / Connectors	CN5-D9M, CN5-D9F	PCE44/9P2S, CN5-D44M	CN5-D9F	

Product Lineup

PCI Express

PCI

ISA

PC Card

USB

Media Converter

^{*1}: Selectable speed, 15 to 921,600 bps, using standard COM driver software setup and API-PAC(W32)

^{*2}: Data transmission at high speed may not be performed normally depending on the environment including the type of status of connected material or cable and environment.

^{*3}: A single interrupt signal "INTA" is output as a collection of interrupt input signals from all channels.

^{*4}: This board requires power supply at +5 V from an expansion slot (it does not work on a machine with a +3.3 V power supply alone).

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.

Serial Communications

Please see page N-33 for optional accessories and cables/connectors, and page M-01 for software.

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Card Bus

9-pin D-SUB

RS-232C

1 ch

921.6 K bps

CE

Windows Driver

Linux Driver

1 Port RS-232C COM-1(CB)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- 128-byte FIFO buffer (both transmission and reception)
- Maximum 2 boards can be mounted on the same PC when using included a COM driver. (for Windows 7, Vista, XP, Server 2008, 2003, 2000)

Connection cable included



Card Bus

9-pin D-SUB x2

RS-232C

2 ch

921.6 K bps

CE

Windows Driver

Linux Driver

2 Port RS-232C COM-2(CB)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- Maximum 2 boards can be mounted on the same PC when using included a COM driver. (for Windows 7, Vista, XP, Server 2008, 2003, 2000)

Connection cable included



Card Bus

9-pin D-SUB x4

RS-232C

4 ch

921.6 K bps

CE

Windows Driver

Linux Driver

4 Port RS-232C COM-4(CB)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- Maximum 2 boards can be mounted on the same PC when using included a COM driver. (for Windows 7, Vista, XP, Server 2008, 2003, 2000)

Connection cable included



Card Bus

9-pin D-SUB

RS-422A/485

1 ch

921.6 K bps

Individual Isolated

Surge Protection

CE

Windows Driver

Linux Driver

1 Port Isolated RS-422A/485 COM-1PD(CB)H

- Functions as a standard COM port when used under Windows or Linux with the provided driver software
- On-board isolated circuit provides safe communication, even over long distances
- 128-byte FIFO buffer (both transmission and reception)
- Maximum 2 boards can be mounted on the same PC when using included a COM driver. (for Windows 7, Vista, XP, Server 2008, 2003, 2000)

Connection cable included



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Product Lineup
PCI Express
PCI
ISA
PC Card
USB
Media Converter

Model	COM-1(CB)H	COM-2(CB)H	COM-4(CB)H	COM-1PD(CB)H
Interface Type	RS-232C (Async.)			RS-422A/485 (Async. & Isolated)
Number of Channels	1	2	4	1
Speed	2 - 921,600 bps*1*2			
Data Type	5/6/7/8 Bit, 1/1.5/2 Stop Bit			
Parity Check	Even, Odd, Non-parity			
Controller	162850 compliant (FIFO buffer: I/O 128-byte per channel)			
Interrupts	1*3			
Wiring Distance	15 m (Max.)			1200 m (Max.)
Isolation Type	-			Bus Isolation
Isolation Voltage	-			300 VDC
I/O Address	Any 32-byte boundary			
Power Consumption (Max.)	3.3 VDC 100 mA		3.3 VDC 200 mA	3.3 VDC, Terminator OFF: 300 mA / Terminator ON: 500 mA
Bus / Dimensions (mm)	PC Card Standard-compliant CardBus / TYPE II			
Included Cable Length	250 mm			
Connector	9-pin D-SUB connector: DELC-J9PAF-20L9 [JAE, Male type] or equivalent			
Options	Software	API-PAC(W32), ACX-PAC(W32)		
	Accessories	-		
	Cables / Connectors	RSS-9M/F, RSC-9F, RSS-25M/9F, RSC-25F/9F, CN5-D9F		

*1: Selectable speed, 15 to 921,600 bps, using standard COM driver software setup and API-PAC(W32)
*2: Data transmission at high speed may not be performed normally depending on the environment including the type of status of connected material or cable and environment.
*3: A single interrupt signal "INTA" is output as a collection of interrupt input signals from all channels.

Note:

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.

Please see page N-33 for optional accessories and cables/connectors, and page M-01 for software.

Serial Communications



1 Port RS-232C Micro Converter COM-1(USB)H

- 128-byte transmission and 384-byte reception
- Functions as a standard COM port when used in Windows 7 / Vista / XP / Server 2008 / 2003 / 2000
- 9-pin D-SUB connector (Female type) is used allowing direct connection with modem. The attached gender-changer enables connection with 9-pin D-SUB connector (Female type) cable (* Installed in the factory setting)



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1 Port Isolated RS-232C Micro Converter COM-1P(USB)H

- 128-byte transmission and 384-byte reception
- Functions as a standard COM port when used in Windows 7 / Vista / XP / Server 2008 / 2003 / 2000
- Port is isolated from PC. All communication lines are surge protected.
- 9-pin D-SUB connector (Female type) is used allowing direct connection with modem. The attached gender-changer enables connection with 9-pin D-SUB connector (Female type) cable (* Installed in the factory setting)



4 Port RS-232C Serial Communication Unit COM-4CX-USB

- 128-byte transmission and 384-byte reception
- Functions as a standard COM port when used in Windows 7 / Vista / XP / Server 2008 / 2003
- USB hub function for connection with up to 4 COM-4CX-USB using a PC USB port.

USB cable included

NEW



USB I/O Unit Bracket for X series
BRK-USB-X



1 Port Isolated RS-422A/485 Micro Converter COM-1PD(USB)H

- 9-pin D-SUB connector (Male type) is used allowing connection with 9-pin D-SUB connector (Female type) cable.
- 128-byte transmission and 384-byte reception
- Functions as a standard COM port when used in Windows 7 / Vista / XP / Server 2008 / 2003 / 2000
- Port is isolated from PC. All communication lines are surge protected.



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Model	COM-1(USB)H	COM-1P(USB)H	COM-4CX-USB	COM-1PD(USB)H
Interface Type	RS-232C (Async.)			RS-422A/RS-485 (Async.)
Number of Channels	1			4
Speed	300 - 921,600 bps ^{*1*2}			1
Data Type	7/8 Bit, 1/2 Stop Bit			
Parity Check	Even, Odd, Non-parity			
Controller	FT232BL (FIFO buffer: 128-byte transmission, 384-byte reception)		XR21V1414 or equivalent (FIFO buffer: 128-byte transmission, 384-byte reception)	FT232BL (FIFO buffer: 128-byte transmission, 384-byte reception)
Interrupts	-			
Wiring Distance	15 m (Max.)			1200 m (Max.)
Isolation Type	-		Bus Isolation	Bus Isolation
Isolation Voltage	-		300 VDC	300 VDC
Guaranteed Operating Voltage	5 V +/- 5 % ^{*3}			
Power Consumption (Max.)	5 VDC 50 mA		5 VDC 280 mA	5 VDC 350 mA
Bus / Dimensions (mm)	USB Specification 1.1/2.0-compliant / 78.3 (W) x 20.5 (D) x 36.5 (H), 91.0 (W) x 20.5 (D) x 36.5 (H) (when gender changer connecting)		USB Specification 2.0/1.1-compliant / 180 (W) x 140 (D) x 34 (H)	USB Specification 1.1/2.0-compliant / 68.3 (W) x 20.5 (D) x 36.5 (H)
Included Cable Length	1.8 m			
Connector	USB: USB A connector RS-232C: 9-pin male D-SUB connector (attached gender-changer: female)		9-pin D-SUB connector DELC-J9PAF-20L9E (JAE, M type) or equivalent	USB: USB A connector RS-422A/485: 9-pin D-SUB connector (Male type)
Software	ACX-PAC(W32)			
Options	Accessories -			
Cables / Connectors	RSS-9M/F, RSC-9F, RSS-25M/9F, RSS-25F/9M, RSC-25F/9F, CN5-D9M, CN5-D9F			CN5-D9M, CN5-D9F

Note:

*1: Data transmission at high speed may not be performed normally depending on the environment such as types of external devices and cables. *2: Selectable speed using software
*3: It does not correspond to Low-power Bus-powered Function (4.4 V operation).

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.

● Gender changer

The gender changer is a conversion connector (15-pin) with both ends set in male type. The product is shipped with the gender changer attached to the interface connector. When connecting the product with a screw-locked (female) cable, leave the gender changer attached to the connector. When connecting the product to a device having a 9 pin D-SUB (Male type) connector using a straight cable, remove the gender changer and connect the product directly to the device.
-COM-1(USB)H, COM-1P(USB)H included-

Media Converter

Media Converter

Provides protocol conversion from RS-232C / RS-422A serial communication to Ethernet or Wireless LAN.

RS-232C Media Converter

RS-232C ⇔ Ethernet (Wire LAN)

- Add-on device modules COM-2(FIT)GY (for RS-232C 2 ch) and COM-1PD(FIT)GY (for RS-422A/RS-485 1 ch) can be freely combined to allow up to three units to be added for extension.
- DHCP client function

RP-COM(FIT)H

- Corresponding to the wide input power supply (10 - 30 VDC)

RP-COM(FIT)H-AF

- Corresponding to 5 VDC power supply
- PoE supporting the use of IEEE802.3af-compatible devices, enabling power to be supplied from UTP cables



The photograph shows RP-COM(FIT)H.

Windows Driver

Optional AC adapter

RS-422A Media Converter

RS-422A ⇔ Wireless LAN

FX-DS540-422

Windows Driver

AC adapter included



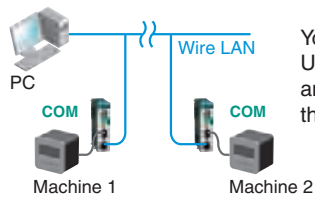
- Three operation modes can be selected to meet your requirements.

Virtual COM Mode [Add a COM port on your PC]

RS-232C (RS-422A) media converter enables you to operate a remote device via Ethernet as if it were right next to you by socket communication with virtual COM programming. In addition, our virtual COM driver can be used as a COM port in a Windows PC*.

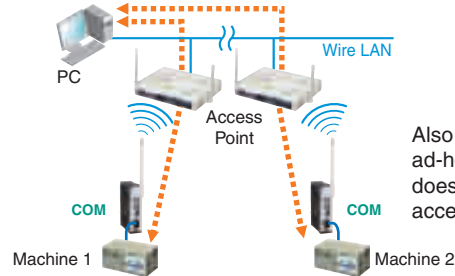
* When using a virtual COM driver, use up to 32 port simultaneously for each PC.

■ Ethernet



You can use up to 100 m UTP cable between PC and HUB, or HUB and this converter.

■ Wireless LAN

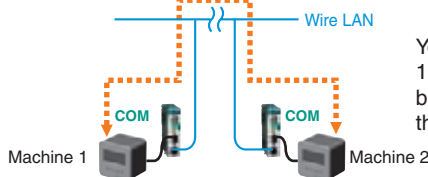


Also supported ad-hoc mode that does not use an access point

Transparent Mode [Replace a RS-232C/RS-422A Cable Connection]

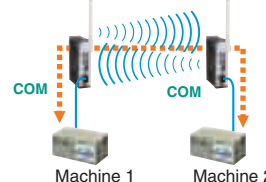
In this mode, data from connected devices is transferred as is, without any changes. You can replace RS-232C/RS-422A cables with Ethernet in applications without changing communication software settings. Up to 254 units can be installed on the same line.

■ Ethernet



You can use up to 100 m UTP cable between HUB and this converter.

■ Wireless LAN



Also supported infrastructure mode that uses an access point

Modem Mode [N-to-N Packet Communication Using Dedicated Commands]

This mode is used for conducting communications to multiple units (N-to-N) by adding dedicated commands to the header of communication data. Serial communication applications to add dedicated commands are required between the device and media converter. Up to 254 units can be installed on the same line.

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PCI Express

PCI

ISA

PC Card

USB

Media Converter

Media Converter

Serial
↕
Ethernet
(Wire LAN)

Model		RP-COM(FIT)H	RP-COM(FIT)H-AF
Serial Part	Standards	RS-232C	
	Data Speed	300 - 921,600 bps	
	Connector	9-pin D-Sub (Male type)	
Wire LAN	Standards	IEEE802.3 (10BASE-T) / IEEE802.3u (100BASE-TX)	IEEE802.3 (10BASE-T) / IEEE802.3u (100BASE-TX) / IEEE802.3af (PoE)
	Data Speed	10/100 Mbps	
	Access Method	CSMA/CD	
	Transmission Format	Half Duplex / Full Duplex	
	Available Ports	1 (10BASE-T/100BASE-TX)	
Power Supply		10.0 - 30.0 VDC +/-5 % (Optional AC adapter)	5.0 VDC +/-5 % [When supplied through the power connector] (Optional AC adapter)
Power Consumption		12.0 VDC 0.2 A (main unit only) 24.0 VDC 0.1 A (main unit only)	0.4 A (Max.) (Main unit only, when supplied through the power connector)
Extension Modules ^{*1*}		RS-232C 2 ch addition: COM-2(FIT)GY RS-422A/485 1 ch addition: COM-1PD(FIT)GY COM-2(FIT)GY or COM-1PD(FIT)GY can be freely combined to allow up to 3 units	
Dimensions (mm)		25.2 (W) x 64.7 (D) x 94.0 (H) (No protrusions)	
Weight		100 g	

*1: When extension module is stack-connected, the corresponding data speed is the same as RP-COM(FIT)H.

*2: When COM-1PD(FIT)GY is stack-connected, half duplex for RS-485 communication cannot be used.

Serial
↕
Wireless LAN
(Wireless LAN)

Model		FX-DS540-COM2	FX-DS540-422
Serial Part	Interface Type	RS-232C	RS-422A
	Data Speed	300 - 921,600 bps	
	Connector	9-pin D-SUB (Male type)	
Wireless LAN IEEE802.11a	Data Type	IEEE802.11a-compliant OFDM (Orthogonal Frequency Division Multiplexing) method	
	Channel	12 ch[34, 38, 42, 46 (J52)]/36, 40, 44, 48 (W52) / 52, 56, 60, 64 (W53)]	4 ch (32, 38, 42, 46)
	Data Speed ^{*1}	54, 48, 36, 24, 18, 12, 9, 6 Mbps (Fixed/Automatic)	
	Access Method	CSMA/CA + ACK(RTS/CTS)	
	Wireless Category	Small power data communication system (5.150 - 5.350 GHz)	
	Aerial Power	10 mW/MHz (Max.)	
	Security	WEP, WPA(AES, TKIP), WPA-PSK(AES, TKIP), WPA2 (AES, TKIP), WPA2-PSK(AES, TKIP), AES-OCB, WSL (can be used in combination with above-code), IEEE802.1X supplicant (Option)	WEP (64/128/152 Bit) or AES (128 Bit) / WSL (Original code) can be used in combination
Wireless LAN IEEE802.11b	Data Type	IEEE 802.11b-compliant DSSS method	
	Channel	14 ch (1 to 14)	
	Data Speed ^{*1}	11, 5.5, 2, 1 Mbps (Fixed/Automatic)	
	Access Method	CSMA/CA + ACK(RTS/CTS)	
	Wireless Category	Small power data communication system (2.4 - 2.4835 GHz)	
	Aerial Power	10 mW/MHz (Max.)	
	Security	WEP, WPA(AES, TKIP), WPA-PSK(AES, TKIP), WPA2 (AES, TKIP), WPA2-PSK(AES, TKIP), AES-OCB, WSL (can be used in combination with above-code), IEEE802.1X supplicant (Option)	WEP (64/128/152 Bit) or AES (128 Bit) / WSL (Original code) can be used in combination
Wireless LAN IEEE802.11g	Data Type	IEEE802.11g-compliant OFDM (Orthogonal Frequency Division Multiplexing) method	
	Channel	13 ch (1 to 13)	
	Data Speed ^{*1}	54, 48, 36, 24, 18, 12, 9, 6 Mbps (Fixed/Automatic)	
	Access Method	CSMA/CA + ACK(RTS/CTS)	
	Wireless Category	Small power data communication system (2.4 - 2.4835 GHz)	
	Aerial Power	10 mW/MHz (Max.)	
	Security	WEP, WPA(AES, TKIP), WPA-PSK(AES, TKIP), WPA2 (AES, TKIP), WPA2-PSK(AES, TKIP), AES-OCB, WSL (can be used in combination with above-code), IEEE802.1X supplicant (Option)	WEP (64/128/152 Bit) or AES (128 Bit) / WSL (Original code) can be used in combination
Extension Modules ^{*2}		RS-232C 2 ch addition: COM-2(FIT)GY RS-422A/485 1 ch addition: COM-1PD(FIT)GY COM-2(FIT)GY or COM-1PD(FIT)GY can be freely combined to allow up to 3 units	-
Dimensions (mm)		25.2 (W) x 64.7 (D) x 94.0 (H) (No protrusions including antenna)	81 (W) x 26.5 (D) x 175 (H)
Weight		110 g	200 g

*1: This is a theoretical value of wireless LAN standard and does not represent actual data speed.

*2: When extension module is stack-connected, the corresponding data speed is the same as FX-DS540-COM2.

Options

RP-COM(FIT)H / RP-COM(FIT)H-AF	
Serial Communication Module	
COM-2(FIT)GY	RS-232C 2 channels
COM-1PD(FIT)GY	RS-422A/485 1 channel
AC adapter	
POA201-10	Output: 12 VDC 1 A (RP-COM(FIT)H)
POA200-20	Output: 5 VDC 2 A (RP-COM(FIT)H-AF)
PoE power supply unit (RP-COM(FIT)H-AF)	
POW-CB30(af)	UTP cable power supply unit
POW-CBM4(af)	Multi-port power supply HUB

FX-DS540-COM2	
Serial Communication Module	
COM-2(FIT)GY	RS-232C 2 channels
COM-1PD(FIT)GY	RS-422A/485 1 channel
AC adapter	
POA201-10	Output: 12 VDC 1 A

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Image Distribution Unit
FlexNetViewer

Solutions /
Services

Serial Communication Media Converter Software

Included items: FD or CD-ROM

The included software contains utility software for device setting and virtual COM drivers for Windows.

There are 3 operation modes in the serial communication media converter and they can be used to meet your requirements.

[Virtual COM Mode]

- The virtual COM driver is a software to use our serial communication media converter in Windows like COM port (standard COM) of the PC.
- Up to 32 port can be added according to the number of installed media converters.
- In Windows, OS standard Win32API communication functions (CreateFile(), WriteFile(), ReadFile(), SetCommState() etc.) are supported. Visual Basic communication control (MSComm) is supported.

[Transparent Mode]

- 2 units of serial communication media converters (as one set) can be used as cable extension of RS-232C-LAN(Ethernet)-RS-232C.
- This can also be used for 232C-422A level conversion when used in combination with / FX-DS540-422.

[Modem Mode]

- This mode is for using our original protocol: modem commands.
- You can transmit/receive data via the main COM (RS-232C) installed in the PC to/from installed serial communication media converters.
- Modem commands can specify the connector of the device and enables you to transmit/receive data N-to-N to/from multiple serial communication media converters.

The latest version is available for free download from our website

Features

- Suitable to cable extension, PC serial ports expansion, and wire saving in serial communication
- Compatible with PC COM port to operate by simply changing the COM port number from existing communication applications(Virtual COM Mode)
- Hardware flow control including RTS/CTS and XON/XOFF software flow control
- Flexible system configuration in combination with wireless COM
- Supporting SNMP agent and MIT, enabling [Monitoring the status of starting up the main unit] and [Monitoring the operating status of the port]

Specifications

Supported OS

Virtual COM Mode

•Windows 7
•Windows XP
•Windows 2000

•Windows Vista
•Windows Me
•Windows 98

Modem Mode

Any operating
systems

Transparent Mode

Any operating
systems

* Also compatible to English version
* Virtual COM programming guide and UDP protocol-used virtual programming provided in our website enable you to use it in operating systems other than Windows.

Supported hardware

Wire LAN RP-COM(FIT)H, RP-COM(FIT)H-AF

Wireless LAN FX-DS540-COM2, FX-DS540-422

J-15

Product Lineup

PCI Express

PCI

ISA

PC Card

USB

Media Converter

Media Converter

IEEE802.15.4-compliant wireless COM adapter

Convert RS-232C serial communication into IEEE802.15.4-compliant wireless communication.

RS-232C wireless COM adapter

RS-232C ⇔ IEEE802.15.4-compliant wireless communication

COM-1C-ZB

- Convert serial interface into IEEE802.15.4-compliant short-range wireless.
- Direct connection to PC connector
- Enables power to be supplied from included AC adapter or serial connector (9-pin)
- DIP switch utility software for easy device setting



Downloadable Windows Driver

Included AC adapter



AC adapter (included)

Format	COM-1C-ZB
Serial	
I/O method	RS-232C (Asynchronous serial transmission)
Number of Channels	1 ch
Data Speed	1200 - 115,200 bps*1
Data length	7, 8 Bit / 1, 2 Stop Bit
Parity Check	Even, Odd, Non-parity
Connector	9-pin D-SUB (Female type)
Wireless	
Data Type	IEEE 802.15.4-compliant DSSS method
Channel	16 ch (11 to 26)
Data Speed	250 Kbps*1
Access Method	CSMA/CA
Wireless Category	2.4 GHz band small power data communication system (2400 - 2483.5 MHz)
Aerial power	1 mW/MHz (Max.)
Antenna	Built-in Chip Antenna
Power Supply	5 VDC +/- 5 % (included AC adapter)
Power Consumption	60 mA (Max.)
Dimensions (mm)	78.3 (W) x 20.5 (D) x 36.5 (H)
Weight	50 g

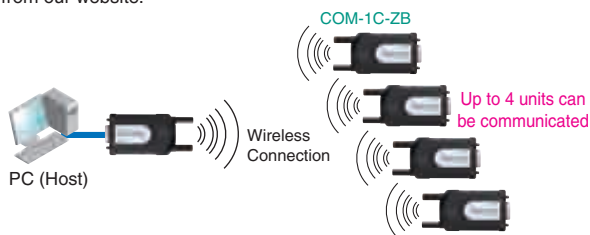
*1: This is a theoretical maximum value and does not represent actual data speed.

- 2 operation modes can be selected to meet your requirements.

Virtual COM Mode [Add a COM port on your PC]

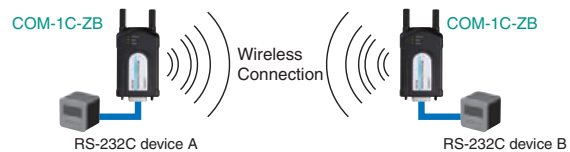
Using the virtual COM*1 driver in combination with this product allows you to communicate with up to 4 device serial ports (1-to-N connection). PC used as host computer needs replacement of virtual COM driver and firmware.

*1: Driver, setting utilities, and firmware can be downloaded for free from our website.



Transparent Mode [Replace a RS-232C Cable Connection]

This mode is used for communicating by replacing serial cable with wireless connection without any change (1-to-1 connection). You can replace serial cable used to connect lines (1-to-1) between respective devices with wireless connection without any change. 2 units should be installed for this product as one set. You can use this product without changing current applications utilizing RS-232C.



- COM-1C-ZB-supported software

Serial Communication Media Converter Software

Download from website

The software which can be downloaded from our website contains utility software for device setting and virtual COM drivers for Windows.

There are 2 operation modes in COM-1C-ZB and they can be used to meet your requirements.

[Virtual COM Mode]

- In Windows, OS standard Win32API communication functions (CreateFile(), WriteFile(), ReadFile(), SetCommState() etc.) are supported. Visual Basic communication control (MSComm) is supported.

[Transparent Mode]

- You can replace serial cable used to connect lines (1-to-1) between respective devices with wireless connection without any change.

Utility Software

Utility software enables you to perform settings as follows:

	Transparent Mode	Virtual COM Mode
Baud rate	⊙	○
Parity	⊙	⊙
Group ID	⊙	⊙
Master station/Slave station ID	—	⊙
Flow Control	○	○
Stop Bit	○	○
Data length	○	○
Wireless channel	○	○

⊙ marked items can also be set by DIP switch.

Features

- You can replace cable with wireless in serial communication and add serial ports on PC.
- Compatible with PC COM port to operate by simply changing the COM port number from existing communication applications (Virtual COM Mode)
- Hardware flow control including RTS/CTS and XON/XOFF software flow control

Specifications

Supported OS

Virtual COM Mode

- Windows Vista
- Windows XP
- Windows 2000

Transparent Mode

Any operating systems

Supported Hardware

COM-1C-ZB

about
CONTEC

BOX
Computers
Panel
Computers
Flat Panel
Displays

Options

Industrial PC
VPC

BTO PCs
Solution-ePC

Analog I/O

Digital I/O

Counter & Motion
Controller

Serial
Communications

GPIO
Communications

Expansion Unit /
Bus Adapter

Software

Accessories &
Cables

Remote I/O

Wireless LAN
FLEXLAN

Image Distribution Unit
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Solutions /
Services

J-16

Product Lineup

PCI Express

PCI

ISA

PC Card

USB

Media Converter