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Part Number: 1120205017

Status: Active

Description: applicom® PCU1000, 1 Serial RS485/RS422 port, PCI 3.3V/5V bus (PCI-X compatible), RoHS compliant

Documents:

Drawing (PDF) | RoHS Certificate of Compliance (PDF)



Series image - Reference only

General

Product Family	Network Interface
Series	112020
Approvals	N/A
Comments	Serial: - Allen-Bradley - DF1. - GE Fanuc - SNP-X. - Elsag Bailey - Data Link. - Moeller - SucomA. - Omron - Sysmac Way. - Saïa Burgess - S-Bus. - Schneider - Modbus, Uni-Telway. - Siemens - 3964/3964R, AS511, PPI /PPI+, TI-Dir
Communication Speed	50 to 38,400 pbs
Mounting Style	N/A
Product Name	applicom®
Protocol	Serial
Type	Serial Card

Physical

Channels	1
Interface	RS485/RS422
Network Connection Type	D-Sub Female (9 pin)
Packaging Type	Carton
Processor	AMD SC520
Temperature Range - Operating	0°C to +70°C

Electrical

EMC	N/A
Supply Voltage	5.5W

Material Info

Old Part Number	APP-SR1-PCU-C

Reference - Drawing Numbers

Sales Drawing	APP-SERIAL

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Reviewed

China RoHS

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

Please visit the Contact Us section for any non-product compliance questions.

Search Parts in this Series
112020Series

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These network interface cards allow connecting your computer to Serial Industrial Networks.

BradCommunications™ applicom® is the easiest and trouble free solution to quickly connect your visualization application to the industrial world.

Serial Network Interface Cards

Best choice for SCADA/HMI applications

Features

- **NEW! PCI Express form factor**
- **1, 2 or 4 Serial ports**
- **Large choice of Serial protocols, all included in the package.**
- **Certified with more than 50 SCADA/HMI packages**
- **On-board processor eliminates data bottle necks, ensuring delivery of time critical information**
- **Electrical Interfaces available:**
  - ▶ **RS232C**
  - ▶ **RS485 / RS422**
  - ▶ **Current Loop**
  - ▶ **Profibus RS485**

  all with or without galvanic insulation (opto couplers)
- **Speed: 50 to 38.400 Kbps**
- **Embedded Database (32 Kwords + 32 Kbits)**
- **Gateway feature with PCI4000**
  Serial ↔Serial
  Serial ↔Profibus
- **Complete and user-friendly package:**
  - ▶ **All components in the box software+hardware**
  - ▶ **2 years of hardware warranty**
  - ▶ **Local technical support with worldwide representation**
  - ▶ **1 driver / 1 configuration tool for all protocols**
  - ▶ **Graphical User Interface**

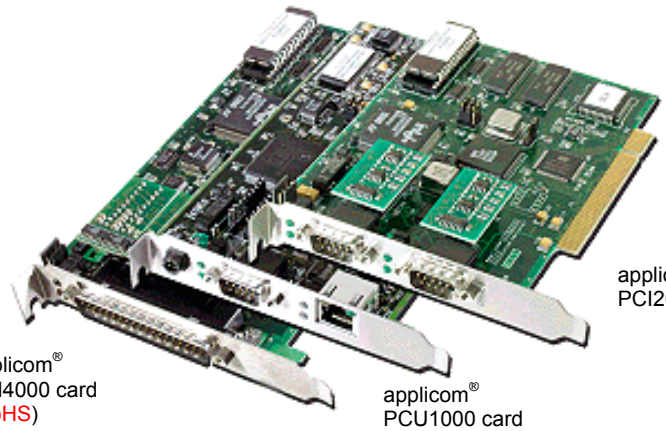
Supported OS

Standard package

- **Windows 32-bit (Vista / XP / 2003 Server)**

Free Download

- **Windows XP Embedded, VenturCom RTX, VxWorks, QNX, Linux, DOS**



applicom® PCI4000 card (RoHS)

applicom® PCU1000 card (RoHS + 3.3V)

applicom® PCI2000 card

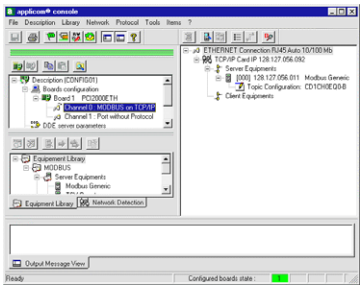
Overview

applicom® is a range of intelligent communication solutions, complete and ready to use covering more than 40 protocols among a wide choice of industrial networks and fieldbuses: Ethernet TCP/IP, Profibus, Modbus Plus, Data Highway Plus, WorldFIP and Serial Links. These solutions connect your PC-based applications (HMI, SCADA, MES, Custom applications) to industrial equipment (programmable controller, I/O modules, devices...).

Thanks to applicom® smart technology - built-in processor, each interface card is able to execute all management and the processing (polling, frame management, etc.) of communications protocols, resulting in extremely fast, efficient application performance.

The applicom® software package includes:

- Graphical configuration software.
- Test and network diagnostic tools.
- Data servers
  - ✓ OPC DA v1.0a, v2.05 and v3.0 (including an OPC client with its source code)
  - ✓ Wonderware I/O Server (DAServer, DDE, FastDDE, SuiteLink)
- Development libraries
  - ✓ DLL Library
  - ✓ MS Visual Studio (.NET/C#/VB/C++/C), Borland Delphi
  - ✓ National Instruments (LabWindows CVI, LabVIEW/VI)



- Configuration Software -



- OPC Server -

Woodhead

BradCommunications™

Network Interface

Technical Specifications

	applicom® PCU1000 (3.3V / 5V)	applicom® PCIE1000
	 (RJ45 port is not usable)	 (RJ45 port is not usable)
Key Benefits		
	• **Universal PCI 3.3 V / 5V (PCI-X compatible)** • **RoHS compliant** • **On-board processor**	• **PCI Express 1x** • **RoHS compliant** • **On-board processor**
Hardware		
Unit	PCI Universal (3.3V / 5V), Short card, single slot	PCI Express 1x, v1.0a
Processor	AMD SC520 - 133 MHz	AMD SC520 - 133 MHz
Memory	16 Mbytes	16 Mbytes
Flash Memory	4 Mbytes	4 Mbytes
Interruption	Hardware Plug&Play	Hardware Plug&Play
DPRAM Address	Hardware Plug&Play (32 Kbytes)	Hardware Plug&Play (32 Kbytes)
Discrete Input	Opto-coupled discrete input, Voltage -> +10 to +30 DC or 24 V AC (50-60 Hz)	Opto-coupled discrete input Voltage -> DC +10 to +30 or AC 24 V (50 to 60 Hz)
Discrete Output	« Watchdog » output contact free from potential, (floating) (24V DC, 0.25A)	« Watchdog » output contact free from potential, (floating) (24V DC, 0.25A)
Dimensions (LxW)	168mm x 107mm (6.61" x 4.21")	168mm x 107mm (6.61" x 4.21")
Consumption	5.5 W	5.5 W
Operating T°	0° C (32° F) ↔ +70° C (149° F)	0° C (32° F) ↔ +70° C (149° F)
Storage T°	-40° C (-40° F) ↔ +85° C (185°)	-40° C (-40° F) ↔ +85° C (185°)
EMC Compliance	Yes, Industrial and Office use	Yes, Industrial and Office use
RoHS Compliant	Yes	Yes
Communication port		
Port type	1 Asynchronous Serial port	1 Asynchronous Serial port
Connector	D-Sub, 9 pin, male	D-Sub, 9 pin, male
LED Indicators	2 leds: TX / RX	2 leds: TX / RX
Electrical Interface(1)	RS485/422, galvanic insulation (500 V)	RS485/422, galvanic insulation (500 V)
Baud Rate:	50 bps ↔ 38400 bps	50 bps ↔ 38400 bps

(1): Also available on option: RS232 (2 or 6 wires), Current Loop 20mA by modifying the daughter card electrical interface.

Network Interface

Technical Specifications

	applicom® PCI2000 (5V)	applicom® PCI4000 (5V)
		
Key Benefits		
	• **On-board processor** • **Gateway feature on 2 ports version**	• **RoHS compliant** • **On-board processor** • **Gateway on 2 ports** • **Mixed up to 4 Serial or Profibus(2) ports**
Hardware		
Unit	PCI (5V), short card, single slot	PCI (5V), short card, single slot
Processor	Intel 80386EX - 24 MHz	Intel 80386EX - 24 MHz
Memory	4 Mbytes	4 Mbytes
Flash Memory	-	-
Interruption	Hardware Plug&Play	Hardware Plug&Play
DPRAM Address	Hardware Plug&Play (2 Kbytes)	Hardware Plug&Play (32 Kbytes)
Discrete Input	-	-
Discrete Output	-	-
Dimensions (LxW)	145 x 106mm (5.70" x 4.17")	175 x 107mm (6.89" x 4.21")
Consumption	4 W	4 W
Operating T°	0° C (32° F) ↔ +70° C (158° F)	0° C (32° F) ↔ +70° C (158° F)
Storage T°	-40° C (-40° F) ↔ +80° C (176°)	-40° C (-40° F) ↔ +80° C (176°)
EMC Compliance	Yes, Industrial and Office use	Yes, Industrial and Office use
RoHS Compliant	No	Yes
Communication port		
Port type	2 Asynchronous Serial ports	4 Asynchronous Serial or Profibus(4) ports
Connector	D-Sub, 9 pin, male	D-Sub, 37 pin, male (see Remote Serial Splitter Box accessories).
LED Indicators	2 leds: TX / RX	On Remote Serial Splitter Box
Electrical Interface(3)	RS485/422, galvanic insulation (500 V)	RS485/422
Baud Rate:	50 ↔ 38400 bps	50 bps ↔ 38400 Kbps

(2): Profibus ports available via Remote Serial Panels BX4010 or BX4010R.
(3): Also available on option: RS232 (2 or 6 wires), Current Loop 20mA by modifying the daughter card electrical interface.
(4): 1x500 Kbps Profibus port + 3x9600 bps Serial ports or 2x187.5 Kbps Profibus port + 2x9600 bps Serial ports

Accessories for applicom® PCI-4000 card

Remote Serial Splitter Boxes

A variety of remote serial splitter boxes are available to split the D-Sub 37 pin port of the applicom® PCI-4000 card into 4 D-Sub distinct ports. A junction cable is used to connect the card to the remote panel.

BR4000



Format:	Desktop version
Port Type:	4 Serial ports, 9 pin, D-Sub male
Dimensions (LxWxH):	185 x 110 x 30 mm (7.28 x 4.33 x 1.18”)
Junction cable:	1.5m (4.92”)
Operating T°:	0° C (32° F) ↔ +65° C (149° F)
Storage T°:	-40° C (-40° F) ↔ +80° C (176°)

BX4010



Format:	Desktop version with galvanic insulation (2500V) based on opto couplers
Port Type:	4 Serial ports, 9 pin, D-Sub male
Dimensions (LxWxH):	275 x 175 x 67 mm (10.83 x 6.89 x 2.64”)
Junction cable:	1.5m (4.92”)
Operating T°:	0° C (32° F) ↔ +65° C (149° F)
Storage T°:	-40° C (-40° F) ↔ +80° C (176°)
LED Indicators:	2 leds: TX / RX
Power supply:	110V / 230V AC (internal switch)

BX4010R



Format:	1U-19” rack version with galvanic insulation (2500V) based on opto couplers
Port Type:	4 Serial ports, 9 pin, D-Sub male
Dimensions (LxWxH):	483 x 200 x 45 mm (19.02 x 7.87 x 1.77”)
Junction cable:	1.5m (4.92”)
Operating T°:	0° C (32° F) ↔ +65° C (149° F)
Storage T°:	-40° C (-40° F) ↔ +80° C (176°)
LED Indicators:	2 leds: TX / RX
Power supply:	110/V / 230V AC (internal switch)

Serial Network Interface Cards

Protocols (all included with the package)

Serial	• Allen-Bradley - DF1 (PLC-5 and SLC Series)	**M, C / S**
	• GE Fanuc / Alstom - SNPX (90-XX and 80-XX Series)	**M**
	• Elsag Bailey - Data Link (5000 & 2000 Series)	**M**
	• Modbus RTU / ASCII	**M / S**
	• Moeller Group - SucomA (PS32, PS316 Series)	**M**
	• Omron - Sysmac Way	**M**
	• Saïa Burgess - S-Bus (PCD Series)	**M**
	• Siemens - 3964/3964R Free or RK512	**M, C / S**
	• Siemens - AS511 (S5 Series)	**M**
	• Siemens - PPI / PPI+ (S7-200 Series)	**M**
	• Siemens - TI-Dir (TI-505 Series)	**M**
	• Schneider Electric - Uni-Telway (TSX 17, 37, 57)	**M / S, C / S**
	• Development toolkit for Serial protocols	**M / S**

Profibus	• Profibus-DP	**M**
	• FDL S5 (Simatic S5 95U, 115U, 135U, 155U)	**M**
	• Siemens - S7 / MPI (S7-300, S7-400 Series)	**M**
	• FDL Send/Receive	**C / S**
	• Profibus-FMS (on request)	**M, C / S**

M: Master, **S**: Slave, **C**: Client, **S**: Server

Ordering Information

Part Number	SAP	Product description
APP-SR1-PCU-C	1120205017	applicom® PCU1000, 1 Serial RS485/RS422 port, PCI 3.3V/5V bus (PCI-X compatible), RoHS compliant
APP-SR1-PCIE	1120205018	applicom® PCIE1000, 1 Serial RS485/RS422 port, PCI Express 1x, RoHS compliant
APP-SR2-PCI-C	1120200003	applicom® PCI2000, 2 Serial RS485/RS422 ports, PCI 5V bus, RoHS compliant
APP-SR4-PCI-C	1120200004	applicom® PCI4000, 4 Serial RS485/RS422 ports, PCI 5V bus, RoHS compliant
APP-INT-232-N	1120260003	RS232 electrical interface without galvanic insulation
APP-INT-232-G	1120260002	1x RS232 electrical interface with galvanic insulation
APP-INT-485-N	1120260005	2x RS485/RS422 electrical interface without galv. insulation
APP-INT-485-G	1120260004	1x RS485/RS422 electrical interface with galvanic insulation
APP-INT-CL2-N	1120260007	Current Loop 20 mA electrical interface (passive) (2 units)
APP-INT-PFB-G	1120170001	1x Profibus 485 electrical interface with galvanic insulation
APP-SBX-BRD(1)	1120320001	BR4000 Remote Serial Splitter Box, desktop version, 4 ports
APP-SBX-BXD(1)	1120320002	BX4010 Remote Serial Splitter Box, desktop version, 4 ports, galvanic insulation
APP-SBX-BXR(1)	1120320007	BX4010R Remote Serial Splitter Box, 19" 1U Rack Mountable, 4 ports, galvanic insulation

(1): Accessories for applicom® PCI4000 cards.

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Reference Number: DW2005103 Date Published: April 2008

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