Brad® applicom™ Serial Network Interface cards

PCI Universal, PCI Express

molex®

Quickly and easily connect your PC-based industrial applications to the industrial world with applicom™ intelligent communication solutions

applicom™ intelligent communication offers complete and ready-to-use solutions that cover more than 40 protocols within a wide choice of industrial networks and fieldbuses including Ethernet, Profibus, WorldFIP and Serial Links. These communication solutions connect PC-based applications (HMI, SCADA, MES, custom applications) to devices including programmable controllers, I/O modules, Panel PCs, process instruments and other industrial equipment.

With applicom™ smart built-in processor technology, each network interface card (NIC) is able to execute all management and processing (polling, frame management, etc) of communication protocols without using a computer's processing (CPU) time; resulting in extremely fast, efficient application performance.

applicom™ solutions are recommended for SCADA/HMI, and custom automation control systems which require powerful data acquisition to manage a large volume of I/O data. applicom™ cards are successfully installed around the world in sectors as varied as oil and gas, automotive, food processing, technical building management, and transportation.



Brad® applicom™ Serial NIC

CE

RoHS

PCI EXPRESS

Rockwell Automation Encompass Product Partner Global

Support of Windows® 8 and 2012 Server

Features and Benefits

On-board co-processor for fast data acquisition between PC-based applications and industrial devices connected to Serial networks	Eliminates data bottlenecks, ensuring delivery of time critical information
Integrated package includes all protocols; ONE configuration and ONE diagnostic tool whatever the protocols used	Provides all-in-one solution; quick development and commissioning of applicom into system architectures
Combine several cards (up to 8) and run simultaneously from 1 to 32 protocols on a single PC	Optimum choice for HMI/SCADA applications

Applications

Supervision / Scada to monitor plant

HMI; Acquisition of process data on panel pc to manage complex machine

Active front-end acquisition for building management systems such as fire detection, access control, power distribution, HVAC

Measures and bench tests for process simulation, car engine validation, and experimental prototypes

Design tools for custom solutions such as a gateway feature, time table management, alarming, etc.

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Specifications

PRODUCT PACKAGE

Engineering Tools
- Configuration console
- Test and diagnostic tools

Data Servers
- OPC DA v3.0 and v2.05
- Wonderware DAServer
- Wonderware I/O (SuiteLink/FastDDE)

Includes Development Libraries
- Visual Studio (VB/C++/C samples)
- MS Visual Studio 2005 (.Net and C# samples)
- Installed on local disc

Other unsupported samples
- (Borland Delphi, Windev and National Instruments (LabWindows CVI, LabVIEW/VI) on CD Rom only

Supported OS:
- Windows (32-bit & 64-bit): 8, 2012 Server, 7, 2008 Server, Vista, 2003 Server, XP

COMMUNICATION PORTS

1x Serial Port
- D-Sub, 9pin, male
- 2 LEDs (TX/RX)
- 50 bps to 38.4 Kbps

Electrical Interface
- RS485/RS422 with galvanic insulation (500 V)

TECHNICAL DATA

Bus Format
- PCI Universal bus 3.3V/5V (PCI-X compatible)
- PCI Express 1x

AMD SC520
16 Mb SDRAM
4 Mb Flash Memory
Interruption: Hardware Plug & Play
DPRAM Address: Hardware Plug & Play
Consumption: 5.5W
Discrete Input: Opto-coupled discrete input,
- Voltage -> +10 to +30 DC or 24 V AC (50-60 Hz)

Discrete Output: «Watchdog» output contact free
- from potential, (floating) (24V DC, 0.25A)

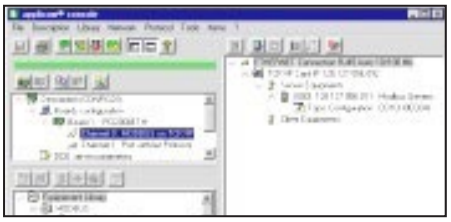
Dimension: 168mm x 107mm

PROTOCOLS

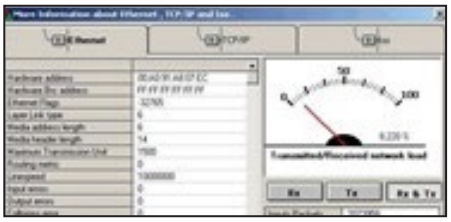
Serial
- Allen-Bradley – DF1 Master
- GE Fanuc – SNP-X Master
- Elsag Bailey – Data Link Master
- Modbus Master / Slave (ASCII & RTU)
- Moller Group – SucomA Master
- Omron – Sysmac Way Master
- Saïa – S-Bus Master
- Siemens – 3964/3964R Master
- Siemens – AS511 Master
- Siemens – PPI/PPI+ Master
- Siemens – TI-Dir Master
- Schneider – Uni-Telway Master/Slave

CONFORMANCES

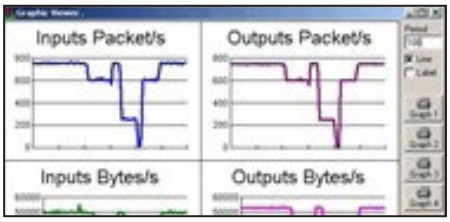
CE
RoHS
OPC Certified
PCI Express certified
Rockwell Encompass
Schneider Collaborative



Engineering Console



OPC Server



Diagnostic Tools

Ordering Information

Order No.	Engineering No.	Description
112020-5017	APP-SR1-PCU-C	applicom PCU1000 PCI Network Interface Card for Serial
112020-5018	APP-SR1-PCIE	applicom PCIE1000 PCI Express Network Interface Card for Serial
112026-0003	APP-INT-232-N	1x RS232 electrical interface without galvanic insulation
112026-0002	APP-INT-232-G	1x RS232 electrical interface with galvanic insulation
112026-0005	APP-INT-485-N	2x RS485/RS422 electrical interface without galvanic insulation
112026-0004	APP-INT-485-G	1x RS485/RS422 electrical interface with galvanic insulation

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www.molex.com/link/bradnics.html

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