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**Part Number:** 1120005028

**Status:** Active

**Description:** applicom® PCIE2000ETH Combo Ethernet 10/100 Mbps + Profibus 1.5 MB card, PCI Express 1x bus, RoHS compliant

**Documents:**

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

## General

| | |
|---|---|
| Product Family | Network Interface |
| Series | 112000 |
| Approvals | CE |
| Communication Speed | Ethernet: 10/100 Mbps, Profibus up to 1.5 Mbps |
| Mounting Style | N/A |
| Product Name | applicom® |
| Protocol | N/A |
| Type | PC Card |

## Physical

| | |
|---|---|
| Channels | 2 |
| Interface | Ethernet |
| Network Connection Type | Ethernet: RJ45, Profibus* D-Sub Female (9 pin) |
| Packaging Type | Carton |
| Processor | AMD SC520 |
| Temperature Range - Operating | 0°C to +65°C |

## Electrical

| | |
|---|---|
| Current - Maximum Input | 5.5W |
| EMC | EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2 |
| Supply Voltage | N/A |

## Material Info

| | |
|---|---|
| Old Part Number | APP-EPB-PCIE |

## Reference - Drawing Numbers

| | |
|---|---|
| Sales Drawing | E-112000-5026 |

**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**
112000Series

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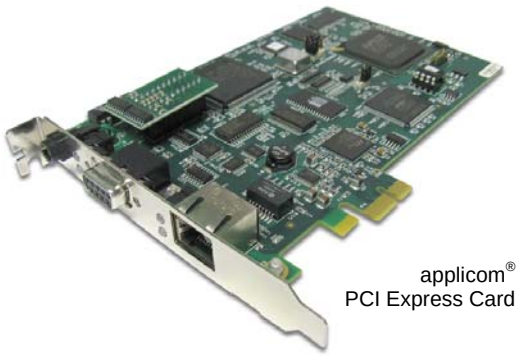
Connect your applications to industrial networks through Ethernet messaging.

# applicom® Ethernet PCIE2000ETH

Best choice for SCADA/HMI applications



applicom®
PCI Express Card

## Features

- RoHS compliant
- All protocols included in the package
- Free full technical support during 2 years of hardware warranty
- On-board processor eliminates data bottle necks, ensuring delivery of time-critical information
- Certified with over 50 major SCADA/HMI packages
- Fast Ethernet 10/100, RJ-45 Port
- COMBO Offer =
  Ethernet + Profibus 1.5Mbps
  or
  Ethernet + Serial 38.4Kbps
- Simultaneously run all TCP/IP protocols in Client/Server modes
- Redundancy feature via OPC Server
- Win32 NDIS driver (using applicom® interface as a standard Ethernet card)
- Onboard internal data base (32 Kwords + 32 Kbits)

## Supported OS

### Standard package

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

### Free Download

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

## Compatible with

- Altus
- GE Fanuc
- Mitsubishi Electric Automation
- Omron
- Rockwell Automation
- Schneider Electric
- Siemens

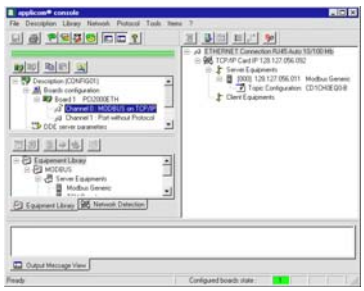
## Overview

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 controllers, I/O modules, devices...).

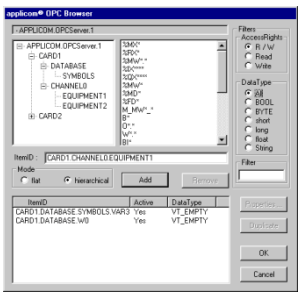
Thanks to applicom® smart built-in processor technology - each interface card is able to execute all management and the processing (polling, frame management, etc.) of communications protocols, resulting in extremely fast, efficient application performance.

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™

# applicom® PCIE2000ETH

Network Interface

## Communication Ports

1 Ethernet port

| | |
|---|---|
| **Port Type** | 1 Ethernet port - IEEE 802.3 for industrial and office (NDIS driver for XP/2000/NT) |
| **Connector** | 10/100baseT (RJ45) |
| **LED Indicators** | 4 LEDs<br>- TX, RX, Link, 100 Mbps |
| **Speed** | 10/100 Mbps (Auto-negotiation) |

**+**

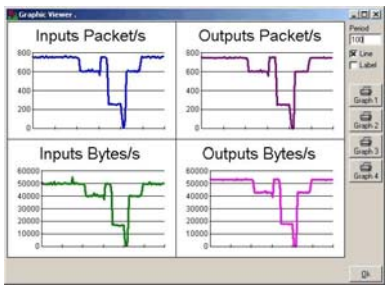
1 Profibus port

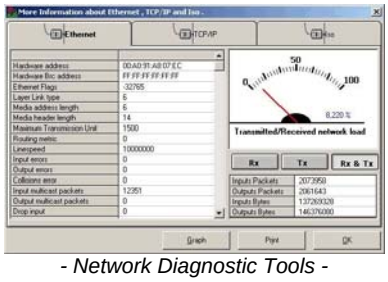
| | |
|---|---|
| **Port Type** | 1 Profibus port (EN 50 170) |
| **Connector** | D-Sub, 9 pin, female |
| **LED Indicators** | 2 LEDs - TX / RX |
| **Electrical Interface** | RS485 with galvanic insulation (500 V) |
| **Speed** | 9.6 Kbps to 1.5 Mbps |

or

1 Serial port

| | |
|---|---|
| **Port Type** | 1 asynchronous serial port |
| **Connector** | D-Sub, 9 pin, male |
| **LED Indicators** | 2 LEDs - TX / RX |
| **Electrical Interface** | RS485/RS422 with galvanic insulation (500 V) |
| **Speed** | 50 bps to 38.400 Kbps |



*- Network Diagnostic Tools -*

## Hardware Specifications

| | |
|---|---|
| **Unit** | PCI Express 1x, rev 1.0a |
| **Processor** | AMD SC520 - 133 MHz |
| **Memory** | 16 Mbytes SDRAM |
| **Flash Memory** | 4 Mbytes |
| **Interruption** | Hardware Plug&Play |
| **DPRAM Address** | Hardware Plug&Play (32 Kbytes used per board) |
| **Digital I/O** | Opto-coupled discrete input<br>Voltage -> DC +10 to +30 or AC 24 V (50 to 60 Hz)<br>"Watchdog" output dry contact (24V DC, 0.25 A) |
| **Dimensions (L x W)** | 168mm x 107mm (6.61" x 4.21") |
| **Consumption** | 5.5 W |
| **Temperature** | Operating: 0º C (32º F) up to +65º C (149º F)<br>Storage: -40º C (-40º F) up to +85º C (185º F) |
| **EMC Compliance** | EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3 |
| **RoHS Compliant** | Yes |

## Protocols (all included in the package)

| | |
|---|---|
| **Ethernet TCP/IP** | • Allen-Bradley - EtherNet/IP (ControlLogix, PLC-5 & SLC 500 Series)<br>• Alstom - SRTP (Alspa C80-35 and C80-75)<br>• Altus - Alnet II (AL2000 and WebGate Series)<br>• GE Fanuc - SRTP (90-30 and 90-70 Series)<br>• Mitsubishi - Melsec (A and Q Series)<br>• Omron - FINS (C, CV and CS Series)<br>• Schneider - Open Modbus TCP (TSX Premium, TSX Micro, etc)<br>• Schneider - Uni-TE (TSX Premium, TSX Micro, etc)<br>• Send/Receive on UDP (dev. free messaging on UDP)<br>• Siemens - Industrial Ethernet (S5, S7 and TI-505 Series)<br>• Development toolkit for TCP and UDP protocols in client/server modes |
| **Ethernet** | • Schneider - Ethway (TSX Premium, TSX Micro, etc)<br>• Siemens - Industrial Ethernet ISO (S5, S7, TF and TI Series) |
| **Profibus** | • Profibus-DP V0 Master Class-1 & Class-2 - All DP slaves devices<br>• FDL for S5 Master - Siemens S5<br>• S7 / MPI Master - Siemens S7-300, S7-400<br>• Send/Rec on FDL - Develop your free messaging on Profibus-FDL |
| **Serial** | 3964/3964R, AS511, DataLink, DF1, Modbus, PPI/PPI+, Saïa-BUS, SNP-X, SucomA, Sysmac-Way, TI-Direct, Uni-Telway, and development toolkit for Serial protocols. |

## Ordering Information

| Part Number | SAP | Product description |
|---|---|---|
| **APP-ETH-PCIE** | 1120005026 | applicom® PCIE2000ETH Ethernet TCP/IP 10/100 Mbps card, PCI Express 1x bus, RoHS compliant |
| **APP-EPB-PCIE** | 1120005028 | applicom® PCIE2000ETH Combo Ethernet 10/100 Mbps + Profibus 1.5 MB card, PCI Express 1x bus, RoHS compliant |
| **APP-ESR-PCIE** | 1120005027 | applicom® PCIE2000ETH Combo Ethernet 10/100 Mbps + Serial RS485/422 card, PCI Express 1x bus, RoHS compliant |

Other related products: IP67/IP20 Ethernet switches, Software solution based on standard Ethernet card, Ethernet I/O for control/command, Ethernet connectivity.

Brad® from molex

To contact us: www.woodhead.com Reference Number: DW2008256 Date Published: January 2009

**North America**: US: + 1 800 225 7724 – Canada: +1 519 725 5136
**Europe**: France: +33 2 32 96 04 20 – Germany: +49 7252 94 96 0– Italy: +39 010 59 30 77 – United: Kingdom +44 1495 356300
**Asia**: Shanghai, China: +86 21-5835-9885 - Tianjin, China: +86 22-23321717
Singapore: +65 6268-6868 – Yamato, Japan: +81 46-265-2428 – Nagoya, Japan: +81 52-221-5950

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