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Find the *Molex / Woodhead / Applicom PCU2000ETH* at our website: *Click HERE*

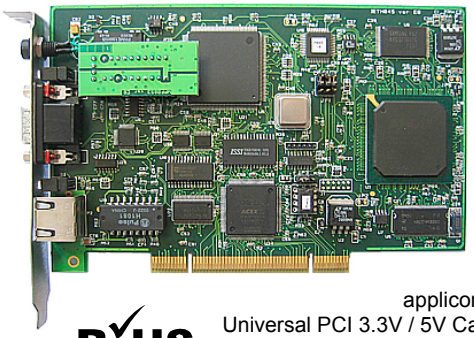
**Connect your applications to industrial networks through Ethernet messaging.**

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

14 May. 10
DW2005101

# applicom® Ethernet PCU2000ETH

**Best choice for SCADA/HMI applications**



applicom®
Universal PCI 3.3V / 5V Card

## Features

- **New!**
  - **Support of Windows 32-bit and 64-bit (WoW64)**
  - **Support of Windows Seven and 2008 Server**
- **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**
- **Onboard internal data base (32 Kwords + 32 Kbits)**

## Supported OS

### Standard package

- **Windows 32-bit and 64-bit (WoW64)**
  - **Windows XP**
  - **Windows 2003 Server**
  - **Windows Vista**
  - **Windows Seven**
  - **Windows 2008 Server**
  - **Windows 2008 Server R2**

### Free Download

- **Other operating systems**
  - **Ardence RTX**
  - **VxWorks**
  - **QNX**
  - **Linux**
  - **DOS**

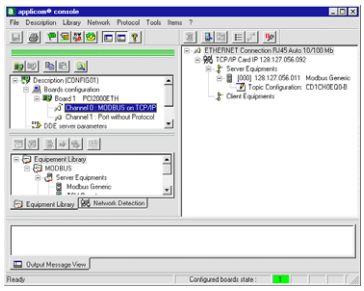
## Overview

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 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 (DDE, FastDDE, SuiteLink)
- Development libraries
  - ✓ DLL Library
  - ✓ MS Visual Studio (.NET/C#/VB/C++/C), Borland Delphi, Windev
  - ✓ National Instruments (LabWindows CVI, LabVIEW/VI)



- Configuration Software -



- OPC Server -

Woodhead

BradCommunications™

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# applicom® PCU2000ETH

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 - TX, RX, Link, 100 Mbps |
| **Speed** | 10/100 Mbps (Auto-negotiation) |

+

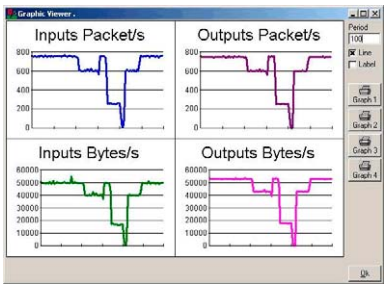
1 Profibus port

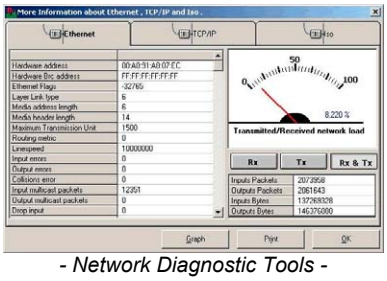
| | |
|---|---|
| **Port Type** | 1 Profibus port (EN 50 170) |
| **Connector** | D-Sub, 9 pin, female |
| **LED Indicators** | 2 LEDs - TX / RX |
| **Electrical Interface** | RS485 with galvanic insulation (500 V) |
| **Speed** | 9.6 Kbps to 1.5 Mbps |

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 rev 2.2, 32-bit, 33 MHz, PCI Universal 3.3V/5V keying, PCI-X compatible |
| **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: 0° C (32° F) up to +65° C (149° F)<br>Storage: -40° C (-40° F) up to +85° C (185° 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-PCU-C** | 1120000005 | applicom® PCU2000ETH Ethernet TCP/IP 10/100 Mbps card, Universal PCI bus (3.3V / 5V), RoHS compliant |
| **APP-EPB-PCU-C** | 1120000001 | applicom® PCU2000ETH Combo Ethernet 10/100 Mbps + Profibus 1.5 MB card, Universal PCI bus (3.3V / 5V), RoHS compliant |
| **APP-ESR-PCU-C** | 1120000003 | applicom® PCU2000ETH Combo Ethernet 10/100 Mbps + Serial RS485/422 card, Universal PCI bus (3.3V / 5V), 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

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