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, Profinet, 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.

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast data acquisition between PC-based applications and industrial devices connected to Ethernet TCP/IP</td>
<td>Enables quick return-of-investment; single development library and OPC server reduce the time required to learn and integrate applicom™ products in to system architectures</td>
</tr>
<tr>
<td>On-board co-processor</td>
<td>Eliminates data bottlenecks, ensuring delivery of time critical information; simultaneously run all TCP/UDP protocols in Client/Server modes</td>
</tr>
<tr>
<td>Integrated package includes all protocols</td>
<td>Provides all-in-one solution for customers</td>
</tr>
<tr>
<td>Combine several cards (up to 8) and run simultaneously from 1 to 32 protocols on a single PC</td>
<td>Optimum choice for HMI/SCADA applications</td>
</tr>
<tr>
<td>Combo versions:- Ethernet + Profinet (1.5 Mbps)- Ethernet + Serial (38.4 Kbps)</td>
<td>Enables fast integration of industrial communication into applications (configuration, diagnostic, data servers, development libraries)</td>
</tr>
<tr>
<td>Conformal coated version</td>
<td>Improves and extends working life of card and ensures reliability in extreme or humid conditions</td>
</tr>
</tbody>
</table>

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.

Windows® and the Windows logo are trademarks of the Microsoft group of companies
## 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 (VB.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:

**TECHNICAL DATA**
- Bus Format
  - PCI Universal bus 3.3V/5V (PCI-X compatible)
  - PCI Express 1x
- Hardware Plug & Play
  - AMD SC520
- Memory
  - 16 Mb SDRAM
  - 4 Mb Flash Memory
- Size (mm): 167 x 106 x 17

**COMMUNICATION PORTS**
- 1 Ethernet port
  - Fast Ethernet 10/100 Mbps, auto negotiating
    - Base-T (RJ45), 4 leds (Rx, Tx, Link, 10/100)
- 1 Profibus port
  - D-Sub, 9 pin, female
  - 2 leds (TX/RX)
  - RS485 with galvanic insulation (500 V)
    - 9.6 Kbps to 1.5 Mbps
- 1 Serial port
  - D-Sub, 9pin, male
  - 2 leds (TX/RX)
  - RS485/RS422 with galvanic insulation (500 V)
    - 50 bps to 38.4 Kbps

**PROTOCOLS**
- Ethernet TCP/IP (manage Client/Server modes simultaneously)
  - Altus – Alnet II (AL 200x, Webgate)
  - Aixom – SRTP (C80-35, C80-75)
  - Allen-Bradley – EtherNet/IP (PCCC)
    - (Logix, PLC-5 and SLC 500)
  - GE Fanuc – SRTP (90-30, 90-70)
  - Mitsubishi – Melsec (A, Q)
  - Omron – FINS (C, CV, CS)
  - Schneider – Open Modbus TCP
  - Schneider – Uni-TE (Premium & Micro)
  - Siemens – Industrial Ethernet (S5, S7, TI)
  - UDP Send/Receive (Free messaging)

**CONFORMANCES**
- CE, RoHS, OPC Certified, PCI Express certified,
- Rockwell Encompass, Schneider Collaborative

### Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Engineering No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>112000-0005</td>
<td>APP-ETH-PCU-C</td>
<td>applicom PCIU02000ETH PCI Network Interface Card for Ethernet</td>
</tr>
<tr>
<td>112000-5026</td>
<td>APP-ETH-POE</td>
<td>applicom PCIEU02000ETH PCI Express Network Interface Card for Ethernet</td>
</tr>
<tr>
<td>112000-5039</td>
<td>APP-ETH-POE-CC(*)</td>
<td>applicom PCIEU02000ETH PCI Express Network Interface Card for Ethernet</td>
</tr>
<tr>
<td>112000-0001</td>
<td>APP-EPB-PCU-C</td>
<td>applicom PCIU02000ETH PCI Network Interface Card for Ethernet + Profibus</td>
</tr>
<tr>
<td>112000-5028</td>
<td>APP-EPB-POE</td>
<td>applicom PCIEU02000ETH PCI Express Network Interface Card for Ethernet + Profibus</td>
</tr>
<tr>
<td>112000-0003</td>
<td>APP-ESR-PCU-C</td>
<td>applicom PCIU02000ETH PCI Network Interface Card for Ethernet + Serial</td>
</tr>
<tr>
<td>112000-5027</td>
<td>APP-ESR-POE</td>
<td>applicom PCIEU02000ETH PCI Express Network Interface Card for Ethernet + Serial</td>
</tr>
</tbody>
</table>

(*) Conformal coating material is applied to PCB to protect against moisture, dust, and chemicals.

Windows® and the Windows logo are trademarks of the Microsoft group of companies

PROFIBUS is a trademark of PROFIBUS International

PCI Universal, PCI Express and the PCI Express logo are registered trademarks of PCI-SIG

Encompass is a trademark of Rockwell Automation

www.molex.com/link/bradnics.html

Order No. 987651-5289 Rev. 1 Printed in EUR/GF/2015.12 ©2015 Molex