Brad® applicom® Network Interface Cards are the easiest and trouble free solution to quickly connect your PC-based industrial applications to the industrial world.

The Brad® applicom® Network Interface Cards are 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, PROFIBUS, Modbus Plus, WorldFIP and Serial Links. These solutions connect your PC-based applications (HMI, SCADA, MES, custom applications) to industrial equipments (programmable controllers, I/O modules, Panel PC, process instruments, etc).

Thanks to Brad® 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 without taking CPU time from your computer, resulting in extremely fast, efficient application performance.

Brad® applicom® solutions are recommended for SCADA/HMI, and customs development which require high powerful data acquisition to manage a large number of I/O data. Brad® applicom® cards are successfully installed around the world in sectors as varied as oil&gas, automotive, food processing, technical building management, and transportation.

**FEATURES AND BENEFITS**

**New!**
- **Support of Windows 32-bit and 64-bit (WoW64)**
- **Support of Windows 7® and 2008 Server**
- Fast data acquisition between PC-based applications and industrial devices connected to PROFIBUS
- On board co-processor eliminates data bottlenecks, ensuring delivery of time critical information
- Best choice for HMI/SCADA applications
- High value engineering software tools; enabling fast integration of industrial communication into your applications (configuration, diagnostic, data servers, development libraries)
- Save commissioning time; ONE configuration and ONE diagnostic tool whatever the protocols used
- Quick “Return-Of-Investment”;
  Single development library and OPC server reduce the time required to learn and integrate Brad® applicom® products in your architectures
- Support Windows and exotic OS (VxWorks, Linux, Ardence RTX)
- Combine several cards (up to 8) and run simultaneously from 1 to 32 protocols in a single PC
- Electrical Interfaces available: RS232C, RS485/RS422, Current Loop; all with or without galvanic insulation (opto couplers)
- Measures and bench tests for process simulation, car engine validation, and experimental prototypes
- Tools to help you design solutions to suit your particular needs such as a gateway feature, time table management, alarming, etc.

**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
**SPECIFICATIONS**

**Product Package**

- Engineering Tools
  - Configuration console
  - Test and diagnostic tools

- Data Servers
  - OPC DA v3.0 and v2.05
  - Wonderware DA Server
  - Wonderware I/O (SuiteLink/Fast DDE)

- Includes Development Libraries
  - MS Visual Studio (.NET/C#/VB/C++/C)
  - Borland Delphi, Windev, and National Instruments (LabWindows CVI, LabVIEW/VI)

- Supported OS:
  - Windows (32-bit & 64-bit):
    - 7, 2008 Server, Vista,
    - 2003 Server, XP
  - Others: Linux, VxWorks,
    - RTX VenturCom

**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
  - (6.61” x 4.21”)

**Communication Ports**

- 1x Serial port
  - D-Sub, 9pin, male
  - 2 led’s (TX/RX)
  - 50 bps to 38.4 Kbps

- Electrical Interface (1)
  - RS485/RS422 with galvanic insulation (500 V)

**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
  - Saia – 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

**ORDERING INFORMATION**

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<th>Order No.</th>
<th>Engineering No.</th>
<th>Description</th>
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<td>APP-SR1-PCU-C</td>
<td>Brad® applicom® PCU1000 PCI Network Interface Card for Serial</td>
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<td>112020-5018</td>
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<td>1x RS485/RS422 electrical interface with galvanic insulation</td>
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