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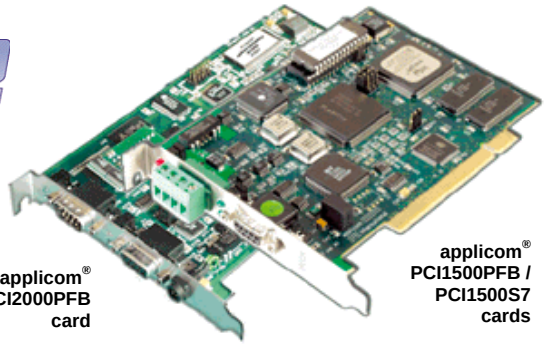
applicom® Profibus interface cards allow you to connect your computer to Profibus DP, MPI/S7, FDL Networks.

applicom® is the easiest and trouble free solution to quickly connect your PC-Based application to the industrial world.

07 Jan. 05

Profibus Network Interface Cards

Best choice for SCADA/HMI applications



applicom® PCI2000PFB card

applicom® PCI1500PFB / PCI1500S7 cards

Features

- Complete and user-friendly package
  - ▶ All components in the box
  - ▶ 2 years of hardware warranty
  - ▶ Local technical support with worldwide representation
  - ▶ 1 driver / 1 configuration tool for all protocols
  - ▶ Graphical User Interface
  - ▶ Network diagnostic and test tools
- COMBO protocol: Run all Profibus protocols simultaneously (DP, S7, MPI, FDL, etc)
- COMBO offer =
  PFB Full 12Mb + PFB S7/MPI 187.5 Kbps
  or
  PFB Full 12Mb + Serial 38.4Kbps
- On-board processor eliminates data bottle necks, ensuring delivery of time critical information
- Speed: 9.6 Kbps up to 12 Mbps
- Each card onboard an internal Data Base (32 Kwords + 32 Kbits)
- Compatible with:
  - ▶ Simatic® S5 Series (95U, 115U, 135U, 155U)
  - ▶ Simatic® S7 Series (S7-300, S7-400)
- Certified with more 50 major SCADA/HMI packages

Supported OS

Standard package

- Windows 32-bit (XP / 2003 Server / 2000 SP3 / NT SP6)

Free Web Download

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

Woodhead is a member of PTO (PROFIBUS Trade Organization), PNO (PROFIBUS Nutzerorganisation e. V.) and France Profibus.

Overview

Based on a unique industrial communications concept, applicom® network interface cards are the **fastest, open, trouble-free** solution for interfacing PC-based applications (HMI, SCADA, MES, RDBM, spreadsheets, custom applications) and devices (PLCs, I/O modules, etc.) connected to industrial networks.

Thanks to smart technology, all applicom® cards (on-board processor) are able to execute all management and the processing of communications protocols (polling, frame management, etc.), resulting in **extremely fast, reliable, efficient application performance**.

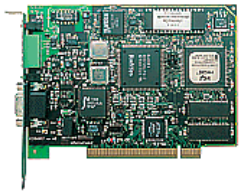
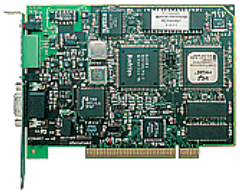
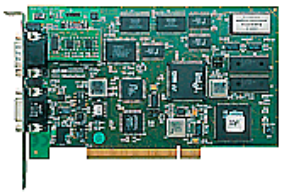
For your convenient, the standard package includes:

- Console software for configuration and initialization
- Powerful test and diagnostic tools
- Data servers
  - OPC DA 1.0a, 2.05 and 3.0 (including OPC client with VC++ code source)
  - ActiveX control + VBA code source generator for VB6
  - Wonderware I/O server (DAServer, FastDDE, SuiteLink)
- Development libraries for programming languages (DLL):
  - Visual Studio (C, C#, VC++, VB), Delphi, Borland, Windev
  - National Instruments (LabWindows CVI, VI for LabVIEW)

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Network Interface

Technical data

	applicom® PCI1500PFB	applicom® PCI1500S7	applicom® PCI2000PFB
			
Key Benefits			
	• **Run all Profibus protocols simultaneously** • **On-board processor**	• **Economic solution - Dedicated to Siemens Simatic® S7** • **FDL & S7 simultaneously** • **On-board processor**	• **COMBO - 2 Profibus ports** • **Speed up to 12 Mbps** • **DP-V0 Master / Slave simultaneously** • **On-board processor**
Hardware			
Unit	PCI 2.2, short card, single slot, 5V	PCI 2.2, short card, single slot, 5V	PCI 2.2, short card, single slot, 5V
Processor	Intel 80486DX4	Intel 80486DX4	AMD SC520 - 133 MHz
ASIC	–	–	ASPC2
Memory	4 Mbytes SDRAM	4 Mbytes SDRAM	8 Mbytes SDRAM
Flash Memory	–	–	512 Mbytes
Interruption	Hardware Plug&Play	Hardware Plug&Play	Hardware Plug&Play
DPRAM Address	Hardware Plug&Play (2 Kbytes)	Hardware Plug&Play (2 Kbytes)	Hardware Plug&Play (32 Kbytes)
Discrete Input	Opto-coupled discrete input, Voltage -> +10 to +30 DC or 24 V AC (50-60 Hz)	Opto-coupled discrete input, Voltage -> +10 to +30 DC or 24 V AC (50-60 Hz)	Opto-coupled discrete input with LED -> DC +10 to 30 or AC 24 V (50 to 60 Hz)
Discrete Output	« Watchdog » output contact free from potential, (floating) (24V DC, 0.25A)	« Watchdog » output contact free from potential, (floating) (24V DC, 0.25A)	"WatchDog" output contact free form potential (floating) (24 V DC, 0.25 A) with LED
Dimensions (LxW)	145mm x 106mm (5.70" x 4.17")	145mm x 106mm (5.70" x 4.17")	175mm x 107mm (6.89" x 4.21")
Consumption	6 W	6 W	5.5 W
Operating T°	0º C (32º F) ↔ +70º C (149º F)	0º C (32º F) ↔ +70º C (149º F)	0º C (32º F) ↔ +65º C (149º F)
Storage T°	-40º C (-40º F) ↔ +80º C (176º)	-40º C (-40º F) ↔ +80º C (176º)	-40º C (-40º F) ↔ +80º C (176º)
EMC Compliance(1)	EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3	EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3	EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3
Communication port			
Port type	1 Profibus port (EN 50170)	1 Profibus port (EN 50170)	**2 Profibus ports**(2) **(EN 50170)**
Connector	Profibus D-Sub, 9 pin, female	Profibus D-Sub, 9 pin, female	Profibus D-Sub 9 pin, female
LED Indicator	2 leds: TX / RX	2 leds: TX / RX	2 bicolor leds: TX/RX, Bus fault, Status
Electrical Interface	RS485 optical insulation (500 V)	RS485 optical insulation (500 V)	RS485 optical insulation (500 V)
Baud Rate	9.6 kbps ↔ 1.5 Mbps	9.6 kbps ↔ 1.5 Mbps	Port1: 9.6 kbps ↔ **12 Mbps** Port2: 9.6 kbps ↔ 187,5 Kbps
Supported Protocols			
Protocol	• Profibus DP-V0 (Master) • S7 / MPI (Master) • PPI/PPI+ (Master) • Send/Receive on FDL • FDL S5 (Master) • Profibus-FMS (on request)	• S7 / MPI (Master) • PPI/PPI+ (Master) • Send/Rec on FDL	• Profibus DP-V0 (Master/Slave) • S7 / MPI (Master) • Send/Receive on FDL • PPI/PPI+(3) (Master) • FDL S5(3) (Master) • Profibus-FMS(3) (on request)

(1): EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3
(2): You can replace the Profibus Port2 by a Serial port (RS232 or RS485, speed up to 38.4 Kbps) that is able to run any Serial protocols of the applicom® offer (Modbus RTU / ASCII, AS511, 3964/3964R, TI-Dir , Uni-Telway, DF1, SNPX, etc).
(3): Port2 of the card

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Profibus Network Interface Cards

Technical data

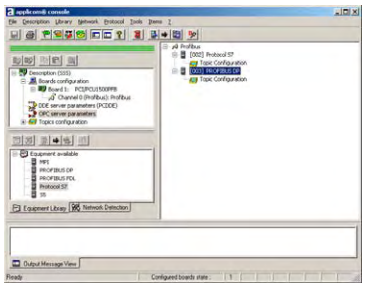
	applicom® PCU1500PFB	applicom® PCU1500S7	applicom® CPCI1000PFB
			
Key Benefits			
	• **Run all Profibus protocols simultaneously** • **Universal PCI 3.3 V / 5V (PCI-X compatible)** • **On-board processor**	• **Universal PCI 3.3 V / 5V (PCI-X compatible)** • **Economic solution - Dedicated to Siemens Simatic® S7** • **Run FDL & S7 simultaneously** • **On-board processor**	• **Economic solution - Dedicated to Siemens Simatic® S7** • **Run FDL & S7 simultaneously** • **CompactPCI form fator**
Hardware			
Unit	PCI 2.2, short card, single slot, 3,3V/5V	PCI 2.2, short card, single slot, 3,3V/5V	CompactPCI board, 5V
Processor	AMD SC520 - 133 MHz	AMD SC520 - 133 MHz	AMD SC520 – 133 MHz
ASIC	–	–	ASPC2
Memory	8 Mbytes SDRAM	8 Mbytes SDRAM	8 Mbyte dynamic RAM
Flash Memory	1 Mbytes	1 Mbytes	512 kbytes
Interruption	Hardware Plug&Play	Hardware Plug&Play	Hardware Plug&Play
DPRAM Address	Hardware Plug&Play (32 Kbytes)	Hardware Plug&Play (32 Kbytes)	Hardware Plug&Play (32 Kbytes)
Discrete Input	Opto-coupled discrete input, Voltage -> +10 to +30 DC or 24 V AC (50-60 Hz)	Opto-coupled discrete input, Voltage -> +10 to +30 DC or 24 V AC (50-60 Hz)	ns
Discrete Output	« Watchdog » output contact free from potential, (floating) (24V DC, 0.25A)	« Watchdog » output contact free from potential, (floating) (24V DC, 0.25A)	ns
Dimensions (LxW)	175mm x 107mm (6.89" x 4.21")	175mm x 107mm (6.89" x 4.21")	100mm x 160mm (3.93" x 6.29") - 3U
Consumption	5.5 W	5.5 W	5 W (max. 0.8A)
Operating T°	0º C (32º F) up to +65º C (149º F)	0º C (32º F) up to +65º C (149º F)	0º C (32º F) ↔ +65º C (149º F)
Storage T°	-40º C (-40º F) up to +85º C (185º F)	-40º C (-40º F) up to +85º C (185º F)	-40º C (-92º F) up to +80º C (176º F)
EMC Compliance(1)	EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3	EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3	EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3
Communication port			
Port type	1 Profibus port (EN 50170)	1 Profibus port (EN 50170)	1 Profibus port (EN 50170)
Connector	Profibus D-Sub, 9 pin, female	Profibus D-Sub, 9 pin, female	Profibus D-Sub, 9 pin, female
LED Indicator	2 leds: TX / RX	2 leds: TX / RX	1 Status LED / 1 Bus Fault LED
Electrical Interface	RS485 optical insulation (500 V) (optional: Profibus D-Sub 9-pin attach vertical connector with diagnostics)	RS485 optical insulation (500 V) (optional: Profibus D-Sub 9-pin attach vertical connector with diagnostics)	RS485 with galvanic insulation (500 volts)
Speed	from 9600 bps to 1,5 Mbps	from 9600 bps to 1,5 Mbps	9600 kbps ↔ 12 Mbps
Supported Protocols			
Protocol	• Profibus DP-V0 (Master) • S7 / MPI (Master) • PPI/PPI+ (Master) • Send/Receive on FDL • FDL S5 (Master) • Profibus-FMS (on request)	• S7 / MPI (Master) • PPI/PPI+ (Master) • Send/Rec on FDL	• Profibus DP-V0 (Master & Slave) • S7 / MPI (Master) • PPI/PPI+ (Master) • Send/Rec on FDL

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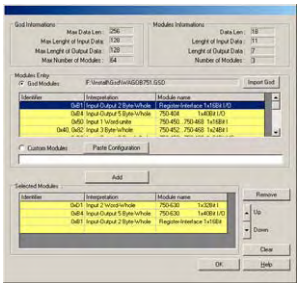
Profibus Network Interface Cards

Software tools

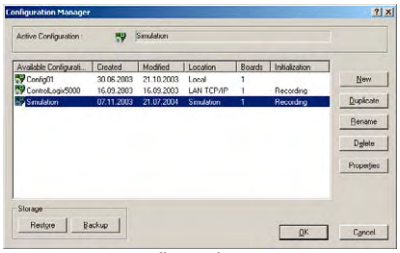
The core of applicom® solutions lies in effective software tools enabling fast integration of industrial communication into your applications.



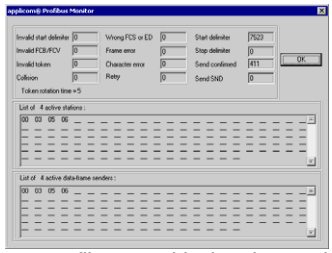
- Configuration Software -



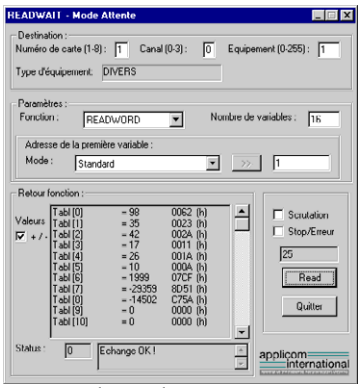
- GSD Editor -



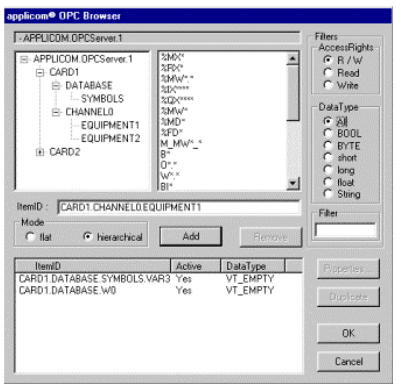
- User's configuration manager -



- Profibus Troubleshooting Tool -



- Testing tools -



- OPC Browser -

Ordering Information

Part Number	Description
APP-PS7-PCI	applicom® PCI1500S7 Profibus S7/MPI 1.5Mb PCI card (5V)
APP-PFB-PCI	applicom® PCI1500PFB Full Profibus 1.5Mb PCI card (5V)
APP-PF2-PCI	applicom® PCI2000PFB combo Full Profibus 12Mb + Profibus MPI 187.5 PCI card (5V)
APP-PFB-PCU	applicom® PCU1500PFB Full Profibus 1.5Mb card, Universal PCI 3.3V / 5V (PCI-X compatible)
APP-PS7-PCU	applicom® PCU1500S7Profibus dedicated Simatic S7 1.5Mb card, Universal PCI 3.3V / 5V (PCI-X compatible)
APP-PFB-CPCI	applicom® CPCI1000PFB Full Profibus 12Mb card, Compact PCI
PA9D01-42	Profibus D-Sub 9-pin attach vertical connector with Diagnostics

Other related products: Combo Ethernet+Profibus (PCI2000ETH card). Form factors available (ISA, CompactPCI, PC/104). Profibus-DP M/S only (PCI-DPIO card). Low range S7/MPI solution (DRL-MPI-PCU card).

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