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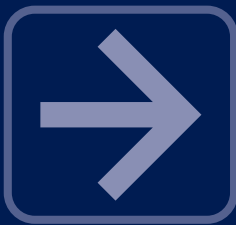E-mail: contact@wdhd.co.uk

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PC104-CANIO

open industrial communication concept

Woodhead

Web www.applicom-int.com

applicomIO® PC104-CANIO

Based on a unique industrial communications concept, applicomIO® provides high-speed, deterministic communications between real-time applications (Open Controller, PC-based Control, Soft Logic, etc.) and various I/O modules communicating through fieldbuses.

The applicomIO® software package includes:
- Configuration software.
- Powerful test and diagnostic tools.
- Data servers (OPC, ActiveX, DDE, FastDDE, SuiteLink).
- I/O libraries for Windows NT (DLL), Windows CE (DLL), Linux, and VenturCom's hard real time extensions (RTSS).
- Drivers for most of the mainstream soft-logic packages (InControl, IsaGRAF, Paradym31, SUPER I/O, VisualPLC, WizPLC, etc.).

A smart **ADM** (Automatic Dual port ram Mapping) mechanism avoids the necessity of I/O tag configuration in the memory of the applicomIO® board, allowing easy and efficient interface to real-time applications. More than a simple I/O acquisition module, applicomIO® provides important information such as automatic detection of I/O devices, online diagnostics, fieldbus analysis, watchdog mechanism...

The communications layers are completely embedded on applicomIO® communications processors, allowing fast, efficient communications with field devices with resultant highly improved control application.

Particularly, the applicomIO® **PCI-CANIO** board is equipped with **1 CAN port,** handling CANopen protocol in Master/Scanner mode up to 1Mbps.

applicom international is a member of **CiA** (**C**AN **i**n **A**utomation) organisation.

Compatibles platforms

- Windows 32-bits (XP, 2000, NT 4, 98)
- Windows Embedded (XPe)
- VenturCom RTX
- VxWorks
- QNX
- Linux
- Dos

Protocols

Protocol	Device
CANopen Master/Scanner	All CANopen slave devices with following profiles:
	DSP401, DSP 402, DSP 403, WD 404, DSP 406

Technical Data

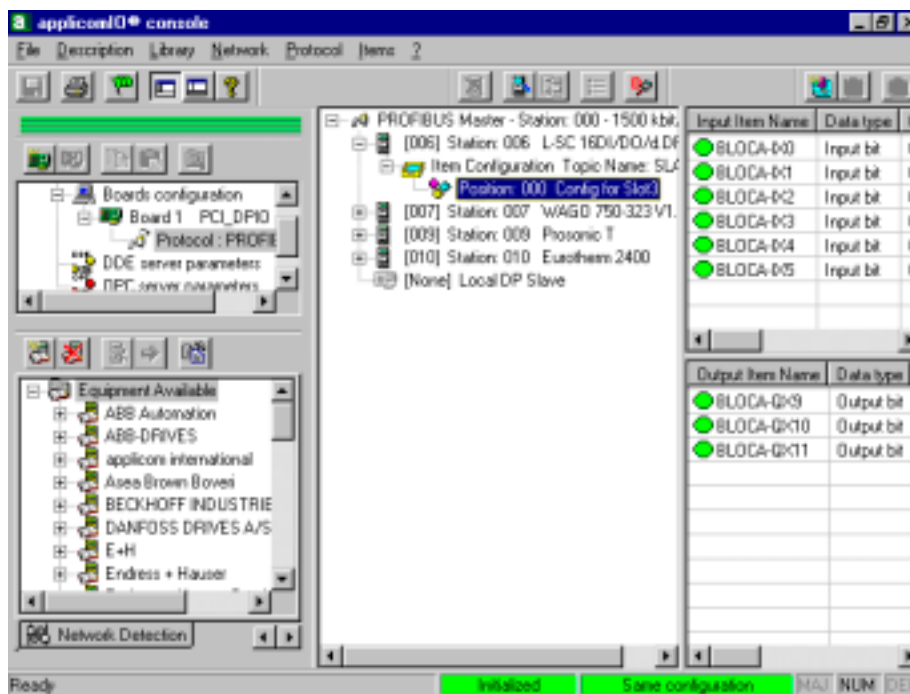|	
Unit	PC/104 board
Processor	AMD SC520 - 100 MHz
Memory	8 Mbytes dynamic RAM
Flash Memory	512 Kbytes flash memory
Supported Interrupts	2, 3, 4, 5, 6, 7, 10, 11, 12, 14, 15
DPRAM Address	from C8000 to DE000 (8 Kbytes used per board)
Discrete Input	Opto-coupled discrete input Voltage -> DC +10 to +30 or AC 24 V (50 to 60 Hz)
Discrete Output	"WatchDog" output contact free from potential (floating) (24V DC, 0.25 A)
Technology	SMC technology; Complies with EMC for both Industrial and office use
Dimensions (L x W)	95mm x 90mm (3.74" x 3.54")
Consumption	5 W (max. 0.8A)
Operating Temperature	-40° C (-40° F) up to +85° C (185° F)
Storage Temperature	-40° C (-40° F) up to +85° C (185° F)

CAN Port

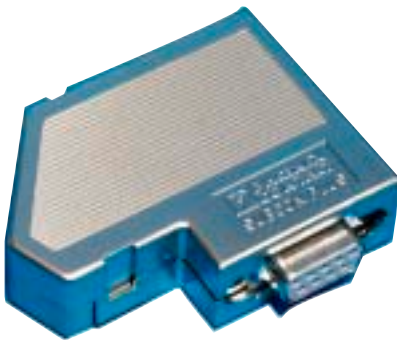|	
Interface type	1 CAN port, CAN 2.0A network with 11-bit identifier
CAN controler	Phillips SJA1000
CAN transceiver	Phillips 82C251
Connector Type	HE13 (2 x 5 pins, allows a straight ribbon connection to a 9-pin Sub-D male)
Speed	1, 10, 20, 50, 100, 125, 250, 500, 800, 1000 Kbps
Transmission LEDs	1 Network state / 1 error indicator

Utilities

- Communication ActiveX control, OPC server, DDE/SuiteLink server
- Drivers for SoftLogic Packages
- API Library for Windows and for VenturCom RTX Hard Real time kernel
- applicomIO® Console: the configuration tool including features:
  - Automatic detection of devices connected on the network
  - Analysis and presentation of the content of description files (EDS, GSD, etc)
  - On line actions and commands (information about the network and access to the device parameters).
  - Define items to the input/output data used by the applicomIO® servers (ActiveX, OPC, DDE/SuiteLink)
  - Configuration Manager used to define and store several user configurations
  - Test and diagnostic tool

Add-on

Connector

- SUBCON-PLUS F3 Connector
  (Phœnix Contact)

References

applicomIO® on PC104-CANIO board	Reference
under Windows XP, 2000, NT4	I41CWCO

Connector	Reference
SUBCON-PLUS F3 Connector (Phœnix Contact)	SUBCON-PLUS F3

Protocol	Device	Reference
CANopen	CANopen slave devices, Profiles: DSP 401, DSP 402, DSP 403, WD 404, DSP 406	LSCO