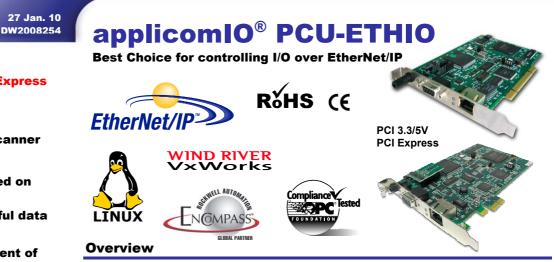


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•	D5033 munications™ Direct-Link™ PCIE-ETHIO Ethernet card for EtherNet/IP Adapter, PCI Express 1x bus, RoHS compliant	EU RoHS       China RoHS         Compliant       ELV and RoHS         Compliant       EACH SVHC         Not Reviewed       Halogen-Free         Status       Out Reviewed         Not Reviewed       Not Reviewed         Not Reviewed       Status         Need more information on product environmental compliance?       Status         Email productcompliance@molex.com       For a multiple part number RoHS Certificate of Compliance, click here         Please visit the Contact Us section for any non-product compliance questions.       Status
Documents: Drawing (PDF)	RoHS Certificate of Compliance (PDF)	
<b>General</b> Product Family Series Approvals Communication Speed Mounting Style Product Name Protocol Type	Network Interface <u>112000</u> CE 10 / 100 Mbaud (Auto) N/A Direct-Link® EtherNet/IP PC Card	
<b>Physical</b> Channels Interface Network Connection Type Packaging Type Processor Temperature Range - Operating	1 Ethernet Ethernet: RJ45 Carton AMD SC520 0°C to +65°C	Search Parts in this Series 112000Series
Electrical Current - Maximum Input EMC Supply Voltage	5.5W EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2 N/A	
<b>Material Info</b> Old Part Number	DRL-EIP-PCIE	
Reference - Drawing Numb Sales Drawing	<b>bers</b> SD-112000-5033	

This document was generated on 06/07/2010 PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION BradCommunications<sup>™</sup> applicomIO<sup>®</sup> Ethernet network interface cards provide powerful and reliable data acquisition for PC-based control and visualization applications.



Some of the world's most demanding high-speed control and automation applications run on standard PCs using BradCommunications<sup>™</sup> applicomIO<sup>®</sup> fieldbus interface cards. Dedicated DCS and PLC systems have been eliminated in favor of open platforms running PC-based control systems.

The benefits include:

- Reduced material costs
- Reduced development times
- More flexible and customizable systems
- Reduced field-support costs

applicomIO products are design so industrial applications can be designed independently of the fieldbus used. **OEMs**, **system integrators** and **end-users** can take advantage of developing standard control applications as well as selecting the fieldbus connectivity required from the applicomIO product range.

applicomIO products consist of a fieldbus card and engineering tools which quickly and easily setup communication. EVERYTHING is included for a successful implementation at a lower cost.

applicomIO provides connectivity support for all popular fieldbuses including **EtherNet/IP**, **PROFINET IO**, **Modbus TCP**, **PROFIBUS**, **DeviceNet** and **CANopen**. Our cards are developed in compliance with the technical specifications of industrial organizations and comply with the applicable industrial standards. applicomIO supports up to 8 cards in a single PC and can run on various operating systems including Windows 32-bits, Linux as well as real-time OS such as VxWorks, QNX, and VenturCom RTX.

Particularly, the applicomIO<sup>®</sup> **PCU-ETHIO** network interface card provides high-speed deterministic communication to exchange data with industrial devices through **EtherNet/IP messaging**. The built-in processor handles all the protocol management to offer reliable and outstanding performance.

The software package includes a common development library for all fieldbuses supported. The process data is exchanged with the control application through a shared memory where inputs/outputs are automatically mapped. To monitor the communication between the card and the control application, the library includes a watchdog feature to automatically detect software blocking.

### ARE YOU LOOKING FOR A REAL TURNKEY SOLUTION?

applicomIO<sup>®</sup> configuration software console provides a standardized and user-friendly environment for quick development of communication applications without the worry of knowing industrial communication protocols. The console saves time during the commissioning phase by offering features such as automatic device detection, user configuration management, diagnostic information, etc.

The product includes:

•

- Fieldbus interface card
- Engineering console for configuration and diagnostics
  - Data Servers (OPC DA v3.0 & v2.05, Wonderware DAServer and FastDDE/SuiteLink)
  - Development Libraries: Windows (DLL), NI (LabView), VenturCom (RTX)
- Static library for non-windows OS (VxWorks, QNX, Linux, etc)

**Features** 

- New! Support of PCI Express 1x fomr factor
- Protocols:
- EtherNet/IP Master/Scanner
- EtherNet/IP Adapter
- Reliable solution based on embedded protocol technology for powerful data throughput
- Single-time development of API for whatever fieldbus used
- "User-friendly" engineering tools for configuration and diagnostics
- Remote connection through Ethernet port (for embedded system platform)
- Application watchdog
- Automatic I/O mapping for easy configuration
- I/O exchange up to 14 Kbytes

### **Typical Application**

- PC-Based Control
- Robotic application
- Panel PC visualization system

### **Supported OS**

Standard package

• Windows 32-bit (XP , 2000, 2003 Server), VenturCom RTX

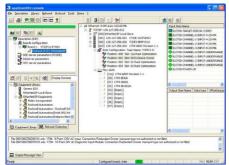
**Free Download** 

 Windows XP Embedded, QNX, VxWorks, Linux, Phar Lap ETS, DOS

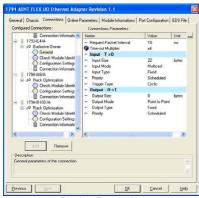
## **Brad**Communications<sup>®</sup>

### **Software tools**

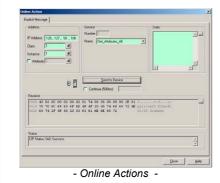
applicomIO<sup>®</sup> software tools enable fast integration of the fieldbus into your control application. No matter the fieldbus; the console remains the same.



- Configuration Console



- Device Properties -





- Diagnostic and Test tools -



# applicomIO<sup>®</sup> PCU-ETHIO

### **Hardware specifications**

Bus interface	<ul> <li>PCI rev 2.2, 32-bit, 33 MHz, PCI Universal 3.3V/5V keying, PCI-X compatible</li> <li>PCI Express 1x</li> </ul>	
Processor	AMD SC520 - 133 MHz	
Memory	SDRAM: 16 Mbytes Flash: 4 Mbytes	
Interruption	Hardware Plug&Play	
DPRAM Address	Hardware Plug&Play (32 Kbytes used per card)	
Dimensions (L x W)	168mm x 107mm (6.61" x 4.21")	
Consumption	5.5 W	
Operating Temperature	0° C (32° F) ↔ +65° C (149° F)	
Storage Temperature	-40° C (-40° F) ↔ +85° C (185° F)	
Discrete Input	1x Opto-coupled	
Discrete Output	1x "WatchDog" (dry contact)	
EMC Compliance	EN55022 Class B, EN61000-6-2, EN61000-3-2, EN61000-3-3	
RoHS Compliance	YES	

### **1 Ethernet port**

Port type	Ethernet port IEEE 802.3 for industrial applications
Connector type	BaseT (RJ45)
Speed	10/100 Mbps (Auto-negotiation)
LED indicators	4 LEDs - TX, RX, Link, 100 Mbps
Remote Access	Also usable for remote and diagnostic configuration

### **Protocols supported**

Protocol	Specifications
EtherNet/IP	<ul> <li>EtherNet/IP - Explicit Msg and Implicit Msg (I/O Control)</li> <li>I/O Master/Scanner and Slave according to EtherNet/IP specifications</li> <li>Up to 128 simultaneous CIP based connections</li> <li>EtherNet/IP Devices supported: Generic and Rockwell I/O through EDS files (FlexIO, CompactLogix, etc)</li> <li>IP address settings configurable via the console or DHCP/BOOTP server</li> <li>Client DNS Supported</li> <li>ODVA Conformance Tested</li> </ul>

### **Ordering information**

Part Number	SAP	Product description	
DRL-EIP-PCU	1120005030	BradCommunications <sup>™</sup> Direct-Link <sup>™</sup> PCU-ETHIO Ethernet card for EtherNet/IP Scanner/Adapter, PCI 3.3/ 5V	
DRL-EIP-PCIE	1120005033	BradCommunications <sup>™</sup> Direct-Link <sup>™</sup> PCU-ETHIO Ethernet card for EtherNet/IP Scanner/Adapter, PCI Express 1x	
Also available Modbus TCP and PROFINET IO network interface cards			

e Moddus TCP and PROFINET TO network Interfa

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