

## Ethernet Loop Controller



### Features

- Standard 100BaseT Ethernet interface.
- Compact and cost-effective
- Allows up to fifteen devices to be connected to a standard PC through a single Ethernet port
- PSI Diagnostic host software allows all PTC devices to be connected through the A300
- Software interfaces available for various host systems.

### Applications

- Low-cost, high performance fiber-optic loop systems
- Data acquisition and control systems for noisy environments
- Service and diagnostics of PTC fiber-optic loop devices.

### Specifications

Ethernet port	Supported baud rates	100 Mbps
	Protocol	User Datagram Protocol (UDP)
	IP address	Switch selectable from 192.168.100.200 to 192.168.100.215. Other ranges can be requested.
Fiber-optic port	IP port number	100
	Supported baud rates	10 Mbps
	Device addresses	1 – 15 inclusive
	Protocol	9 bit binary (10 Mbps)



**Specifications (continued)**

Power input	+24V (+/- 2V) DC, 150 mA
Controls	16 position rotary switch for IP address selection
Displays	Four board status LEDs (power, fiber-optic activity, Ethernet activity, program running). During flash memory programming, alternate LEDs blink.  Four Ethernet status LEDs (power, Ethernet connected, 100 Mb selected; Ethernet activity)
Case material	Stainless steel sheet
Weight	0.22 kg (0.48 lb)
Operating environment	10 to 35C, < 80% humidity, non-condensing, vibration < 0.2g all axes, 1 to 1000Hz
Storage environment	0 to 50C, < 80% humidity, non-condensing, vibration < 2g all axes, 1 to 1000Hz

**Interfacing**

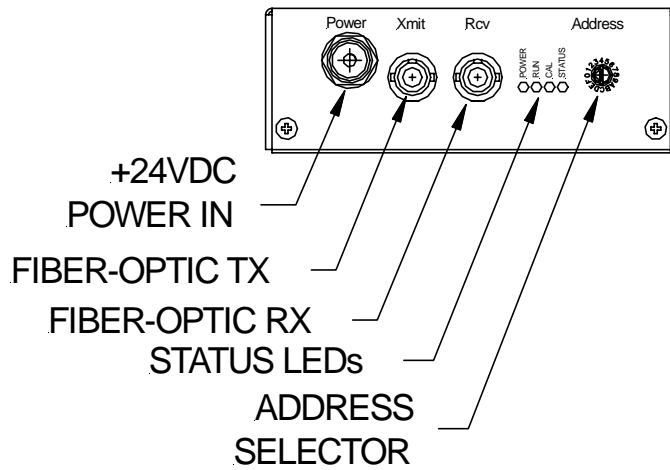
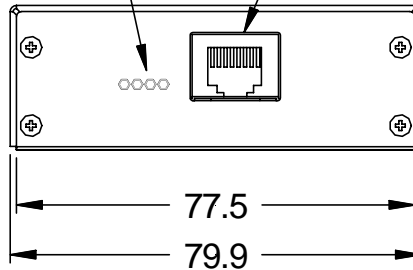
Interfaces	To host system: Ethernet 10/100baseT  To front-end devices: Fiber-optic loop, 10 Mbit/sec serial, 9 bit asynchronous binary.
Host computer	PSI Diagnostic host software recommended. DLLs available for Microsoft® .NET 2.0, Win32 and Labview.

**Connectors**

Ethernet	RJ-45 socket, suitable standard Ethernet 8-way plug and CAT5 or higher cable. Fully transformer isolated Auto MDIX capability: The A300 negotiates TX and RX lines when making a connection. Crossover or non-crossover cables may therefore be used.
Fiber optics	Two 1mm Avago HFBR ST bayonet.
Power in	2.1mm threaded jack. Mates with Switchcraft S761K or equivalent.



STATUS LEDs      ETHERNET



Dims mm

**Ordering information**

A300	A300 with PSI Diagnostic host software
-IP<N>	Supply with lowest IP address N

Pyramid Technical Consultants, Inc.,  
 1050 Waltham Street Suite 200  
 Lexington MA 02421 USA  
 Tel: +1 781 402 1700 (USA),  
 +44 1273 493590 (UK)

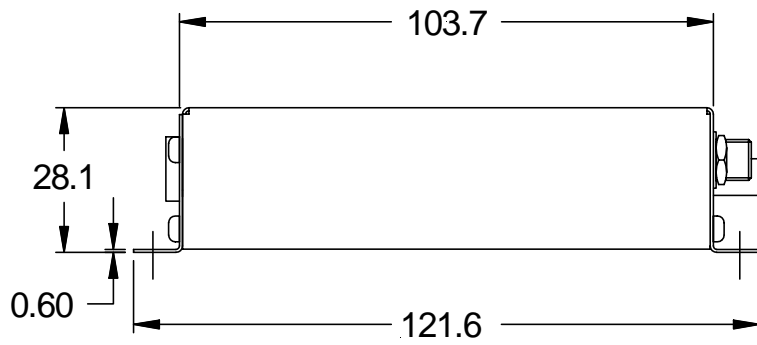
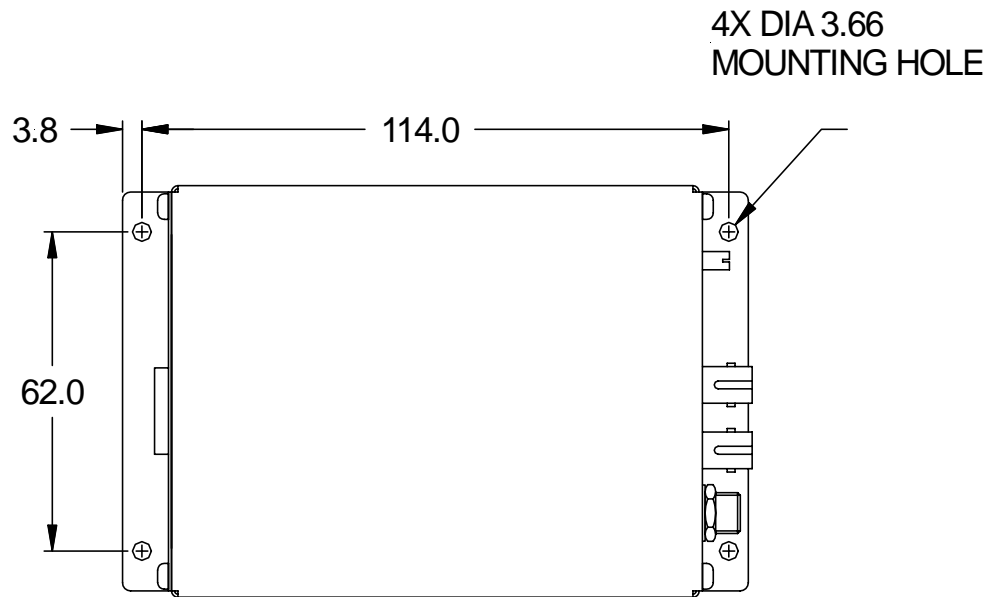
Email: support@ptcusa.com

[www.ptcusa.com](http://www.ptcusa.com)

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A300\_DS\_0900803





Dims mm

