

General Standards Corporation

High Performance Bus Interface Solutions

PMC66-16A016-CLK485TTL16

8-RS485 I/O CHANNELS, 16-TTL OUTPUTS, 2 TTL INPUTS



Features Include:

- 8 – RS485 Channels of which each can be either an Input or an Output
- 16 – Dedicated TTL Output Channels
- 2 – Dedicated TTL Input Channels

Applications:

- Clock Driver
- Data Acquisition Systems
- Automatic Test Equipment
- Industrial Robotics
- Function and Waveform Generation
- Precision Voltage Sourcing and Measurement
- Research Instrumentation

General Standards Corporation

8302A Whitesburg Drive · Huntsville, AL 35802 Phone: (256) 880-8787 or (800) 653-9970 FAX: (256) 880-8788

General Standards Corporation

High Performance Bus Interface Solutions

Functional Description:

The PMC66-16AO16-CLK485TTL16 board provides RS485 and TTL I/O with on board clocks (resembling the General Standards PMC66-16AO16 Product) available. This product provides sixteen TTL Output channels divided into 4 banks of 4 channels each which can be configured to be driven by the on board clocks, one of the two available TTL inputs, or any of the eight available RS485 inputs. Each of the eight RS485 channels can be configured as an input or as an output with the source being one of the internal clocks or one of the two available TTL inputs. The board is functionally and mechanically compatible with the IEEE PCI local bus specification Revision 2.3 for 32-Bit transfers with 33MHz or 66MHz PCI clocking.

Power requirements consist of +5 VDC from the PMC PCI bus in accordance with the specification, and operation over the specified temperature range is achieved with conventional cooling.

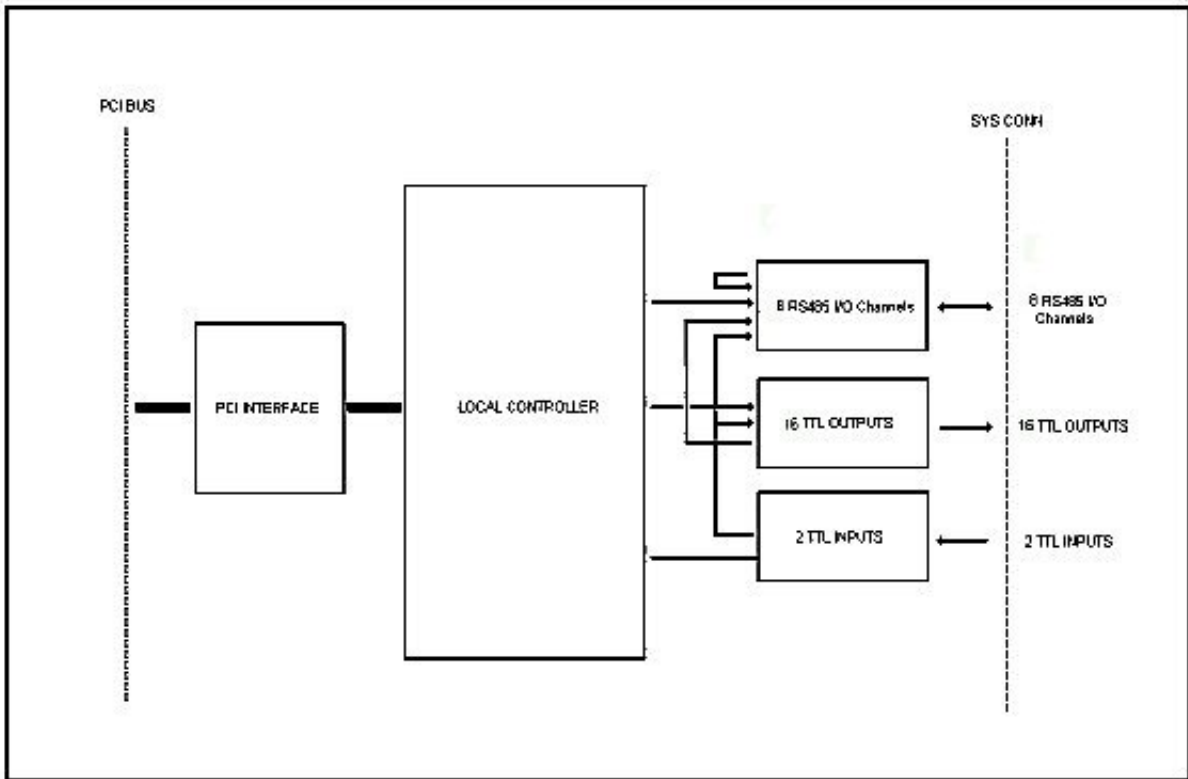


Figure 4.1-1. Functional Block Diagram

General Standards Corporation

General Standards Corporation

High Performance Bus Interface Solutions

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Power Requirements: +5VDC \pm 0.2 VDC at 1.4 Amps, maximum, 0.9 Amps typical

Power Dissipation: 7.0 Watts maximum; 4.5 Watts typical

Physical Characteristics (Overall excluding spacers): Height: 23.3 mm (0.92 in) Width: 94.0 mm (3.78 in) Depth: 95.9 mm (3.70 in)

Environmental Specifications

Ambient Temperature Range: Operating: 0 to +70 degrees Celsius * Storage: -40 to +85 degrees

Celsius *Temperature of inlet cooling air. Relative Humidity: Operating: 0 to 80%, non-condensing

Storage: 0 to 95%, non-condensing Altitude: Operation to 10,000 ft. Cooling: Conventional convection cooling

General Standards Corporation

General Standards Corporation

High Performance Bus Interface Solutions

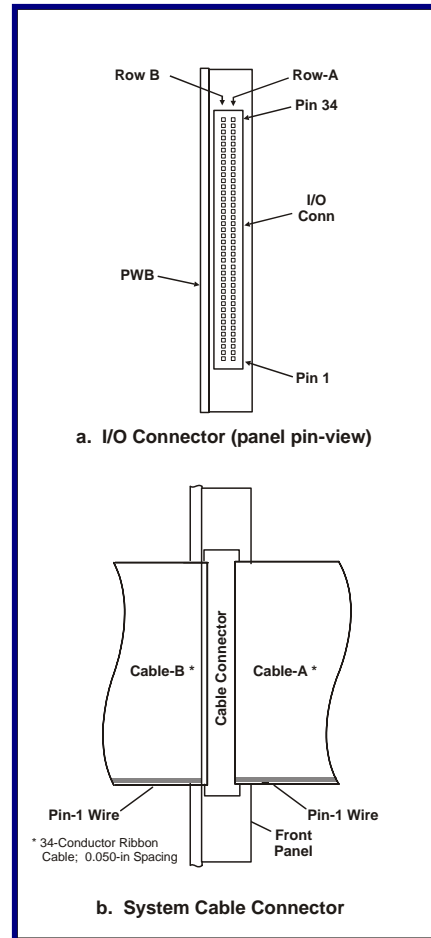
ORDERING INFORMATION

This product currently has no factory configured options.

SYSTEM I/O CONNECTIONS

Table 1. System I/O Connector Pin Functions

ROW-A		ROW-B	
PIN	FUNCTION	PIN	FUNCTION
1	RS485 CH00 HI	1	TTL OUTPUT CH00
2	RS485 CH00 LO	2	DIGITAL GROUND
3	DIGITAL GROUND	3	TTL OUTPUT CH01
4	DIGITAL GROUND	4	DIGITAL GROUND
5	RS485 CH01 HI	5	TTL OUTPUT CH02
6	RS485 CH01 LO	6	DIGITAL GROUND
7	DIGITAL GROUND	7	TTL OUTPUT CH03
8	DIGITAL GROUND	8	DIGITAL GROUND
9	RS485 CH02 HI	9	TTL OUTPUT CH04
10	RS485 CH02 LO	10	DIGITAL GROUND
11	DIGITAL GROUND	11	TTL OUTPUT CH05
12	DIGITAL GROUND	12	DIGITAL GROUND
13	RS485 CH03 HI	13	TTL OUTPUT CH06
14	RS485 CH03 LO	14	DIGITAL GROUND
15	DIGITAL GROUND	15	TTL OUTPUT CH07
16	DIGITAL GROUND	16	DIGITAL GROUND
17	RS485 CH04 HI	17	TTL OUTPUT CH08
18	RS485 CH04 LO	18	DIGITAL GROUND
19	DIGITAL GROUND	19	TTL OUTPUT CH09
20	DIGITAL GROUND	20	DIGITAL GROUND
21	RS485 CH05 HI	21	TTL OUTPUT CH10
22	RS485 CH05 LO	22	DIGITAL GROUND
23	DIGITAL GROUND	23	TTL OUTPUT CH11
24	DIGITAL GROUND	24	DIGITAL GROUND
25	RS485 CH06 HI	25	TTL OUTPUT CH12
26	RS485 CH06 LO	26	DIGITAL GROUND
27	DIGITAL GROUND	27	TTL OUTPUT CH13
28	DIGITAL GROUND	28	DIGITAL GROUND
29	RS485 CH07 HI	29	TTL OUTPUT CH14
30	RS485 CH07 LO	30	DIGITAL GROUND
31	TTL INPUT CH00	31	TTL OUTPUT CH15
32	DIGITAL GROUND	32	DIGITAL GROUND
33	TTL INPUT CH01	33	DIGITAL GROUND
34	DIGITAL GROUND	34	DIGITAL GROUND



**Mating Connector is a 68-Pin dual-cable high-density 0.05-inch Amp type 749621-7 or equivalent.

General Standards Corp.

General Standards Corporation assumes no responsibility for the use of any circuits in this product. No circuit patent licenses are implied. Information included herein supersedes previously published specifications on this product and is subject to change without notice.