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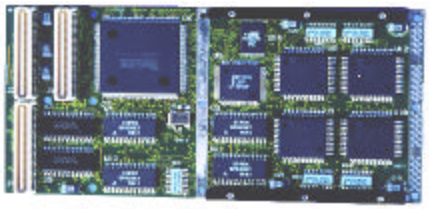
***Contact us:*** (888) 88-SOURCE | sales@artisantg.com | www.artisantg.com

# PSC8 - Serial I/O PMC

**8 Channels of RS-422/485 Serial I/O**

The VISTA PSC8 (Serial I/O) PMC Module is based on the 85C30 chip and provides 8 serial channels of RS – 422/485.
A DMA Control engine and 8 Kbytes of buffer Memory (dual-ported to the Serial Communication Controllers and the PCI bus) are incorporated to minimize CPU time for Data Communication. Also provided is 32 Kbytes of EEPROM for storage of the BIT routines and board ID.



**APPLICATIONS**

**Navigation Systems**
**Fire Control Systems**
**Flight Control Systems**
**Sight-head Stabilization**
**Data Collection**
**Communication**
**C3I**

The Serial I/O PMC Module is designed to comply with IEEE 1386.1, (the industry standard for mezzanine modules). This allows the Serial I/O PMC module to be used with any compliant CPU's which use the standard PMC interface. The Serial I/O PMC Module is thus ideal for use with VISTA's SCORE SERIES PowerPC CPU, or other platform hosting a PMC interface.

The PSC8 PMC Module is available in each of VISTA's Environmental classifications :

**Class 1:**
**Laboratory,**
***0°C to + 55°C***

**Class 2:**
**Rugged Forced Air,**
***-40°C to + 75°C***

**Class 3:**
**Rugged Conduction,**
***-40°C to + 75°C***

**Class 4:**
**Mil Temp Conduction,**
***-55°C to + 85°C***
****Contact Factory****

- **8 Channels of Serial communications: 8 -- RS-422/485**
- **8 Kbytes D/P Buffer Memory**
- **32 Kbytes EEPROM**
- **DMA engine to decrease CPU loading (RS-422)**
- **Bit and Byte Protocols supported**
- **Data rates to 4 Mbits/sec over RS-422**
- **Asynchronous formats supported**
- **HDLC and SDLC protocols and CRC generation**
- **User configurable data size, stop bits, parity and baud rate generator**
- **Local loop back and auto echo modes**
- **PMC Interface**
- **Air Cooled & Conduction Cooled versions are available**
- **BIT (Built In Test)**

***System Features***

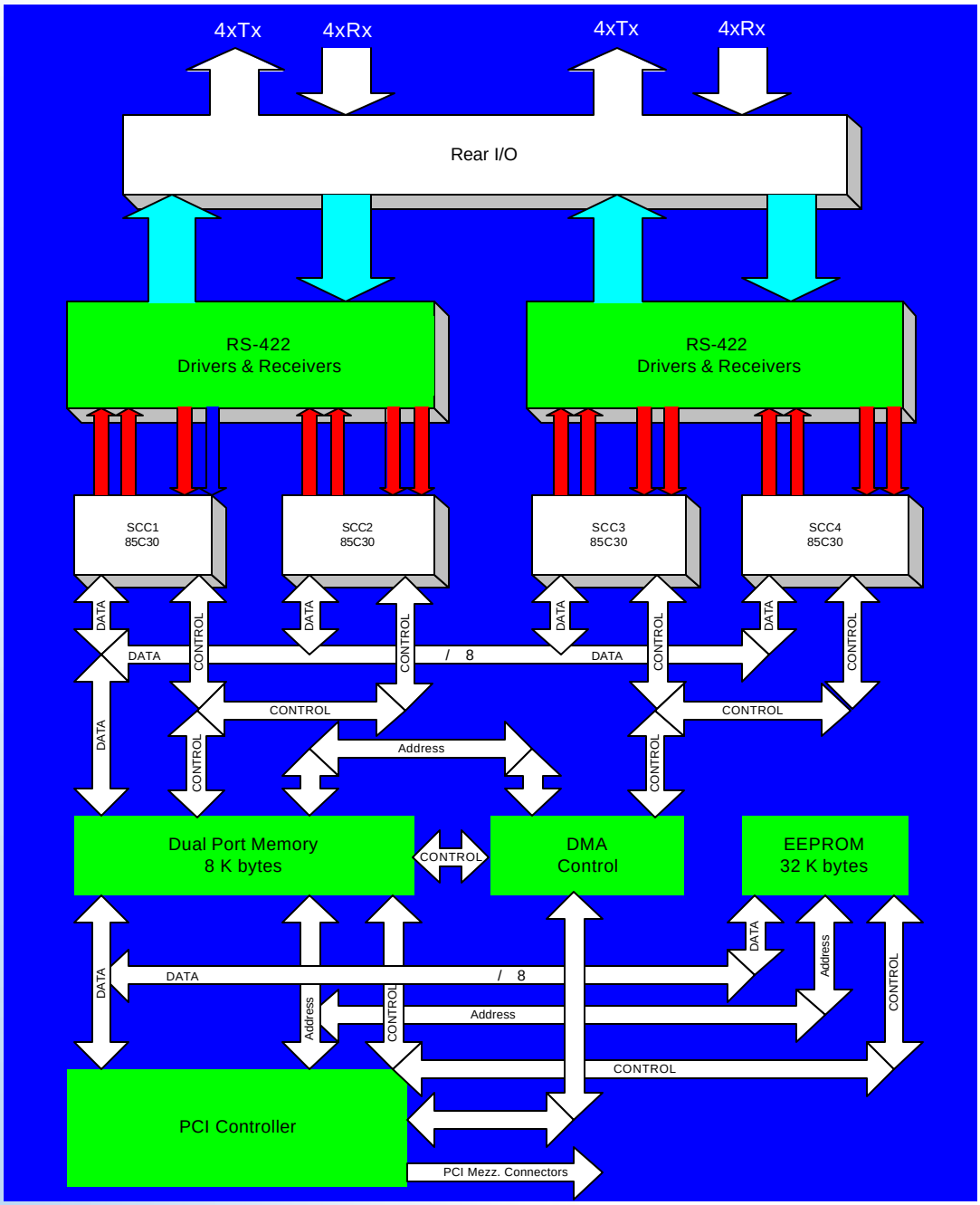
- ***VxWorks Drivers available***
  *(call for other OS support)*
- ***Conduction Cooled, -40°C to +75°C Operating Temperature (Class 3; see Environmental Classifications)***
- ***0.1 $g^2$ / Hz Vibration per Mil-Std-810E, (Class 3)***
- ***40G Shock per Mil-Std-810E, (Class 3)***


VISTA CONTROLS
A Curtiss-Wright Company

**27825 Fremont Court**
**Santa Clarita, CA 91355**
**(661) 257-4430 phone**
**(661) 257-4782 fax**

# PSC8 - Serial I/O PMC

## 8 Channels of Serial I/O: RS-422/485




| Order Option Code | Serial Channels |
|---|---|
| 800 | 8 Channels |

**Ordering Information:** (call if your configuration is not shown)

PSC8 - CLx-yyy

*Order Option Code From 1st Column of Table*

*Environmental Class*
*1= laboratory, convection cooled*
*2= rugged, convection cooled*
*3= rugged, conduction cooled*
*4=Mil Temp Conduction - Call Factory*
*(see environments table in catalog for more detail)*

*See Order Option Sheet for more detailed information on options

R021202

**27825 Fremont Court, Santa Clarita California 91355, telephone(661) 257-4430, fax (661) 257-4782, Internet = http://www.VISTAcontrols.com**

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