

CAMAC Equipment

CAMAC, Computer Automated Measurement And Control, is an IEEE-standard (583), modular, high-performance, realtime data acquisition and control system concept.

Since 1969, CAMAC has been used in many thousands of scientific, industrial, aerospace, and defense test systems around the world.

APPLICATIONS

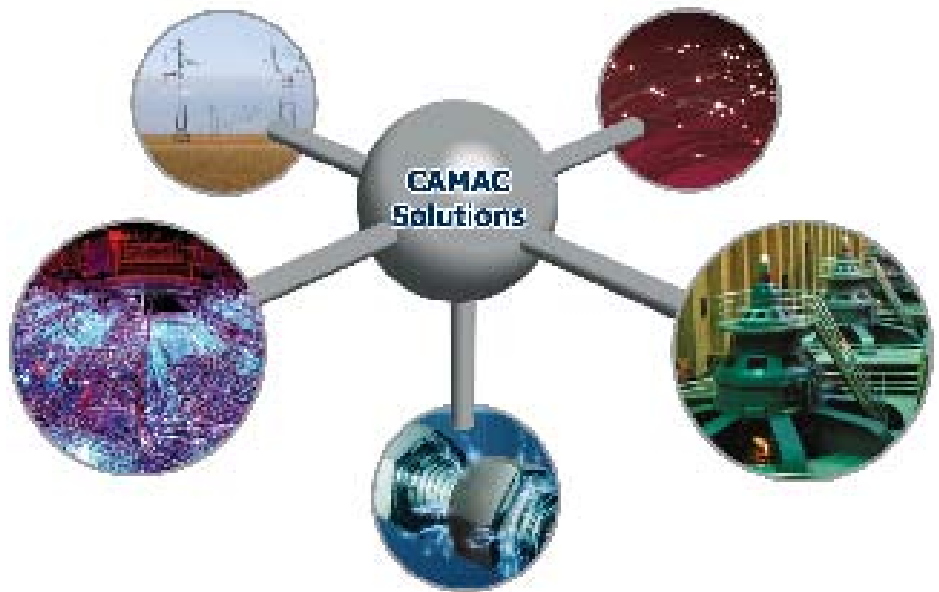
Interfacing CAMAC to PCI computers

General purpose data acquisition and control

Laboratory automation

Industrial process control

2915 PCI Interface to 3922 Controller



The 2915 is a computer bus interface adapted for use with computers incorporating the Peripheral Component Interconnect (PCI) local bus.

FEATURES

- Provides dedicated PCI interface
- Used with 3922 parallel bus crate controller
- Up to 8 crate controllers addressed on a single bus
- Mounts in any PCI compatible expansion slot
- Interrupts for CAMAC Done and LAMs
- RS-485 balanced line signaling between 2915 and 3922 for high noise immunity
- Supports crate controller bus lengths to 90 m (300 ft)
- PCI configuration registers for programmable address selection
- 1 Mbyte/s throughput
- Driver software support available



GENERAL DESCRIPTION

The 2915 is a computer bus interface adapted for use with computers incorporating the Peripheral Component Interconnect (PCI) local bus. It mounts in any available PCI slot supporting 32-bit data transfers and communicates with the host using the 32-bit data path.

The 2915 supports up to eight Model 3922 Crate Controllers via a Model 5843-Txyz 40-conductor, twisted-pair ribbon cable (ordered separately). Signaling on the parallel bus is accomplished using RS-485 balanced line drivers and receivers, giving high noise immunity and allowing an overall cable distance between the 2915 and the last 3922 of up to 90 m (300 ft). The last 3922 on the parallel bus is terminated with a termination card provided with the 3922.

Program transfers as well as Direct Memory Access (DMA) are supported by the 2915. The DMA transfers provide a speed- efficient mechanism to move large blocks of data to and from a 3922. The DMA transfer modes include a Q-Stop, Q-Ignore, Q-Repeat, and Q-Scan. Interrupt capability is also provided. An interrupt can be generated by "CAMAC Done" or by a pending Look-At-Me (LAM). In response to a LAM interrupt, the host performs a parallel poll operation to the 3922 via the 2915. During the parallel poll, each 3922 requesting service asserts one of the eight data lines (i.e., Crate 5 asserts Data line 5). This method increases the efficiency of the interrupt service routine in multi-crate systems.

The 2915 contains PCI configuration registers mandated by the PCI specification. These configuration registers permit the 2915 to be installed in a system without preselecting any address switches or straps.

ACCESSORIES

- Model 5843-Txyz Interface Bus Cable (1 required for each 3922)
- Model 3922-Z1B Parallel Bus Crate Controller
- Model AB10-BAA5 Alpha/Open VMS Software Driver
- Kmax * software drivers from SPARROW Corporation

ORDERING INFORMATION

MODEL	DESCRIPTION
2915-Z1A	PCI Interface to 3922

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