

module

GPIB Interface

PRODUCT BRIEF

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FEATURES

- PROVIDES FOR INTERFACE BETWEEN A CAMAC SYSTEM AND GPIB-INTERFACED INSTRUMENTS
- MEETS IEEE 488 AND 583 REQUIREMENTS
- PROVIDES GPIB T8, L4, C1 - C4, C25, SH1, AH1, SR0, RL0, PP0, DCO, DT0 INTERFACE FUNCTIONS
- GPIB T6, SR1, DC1, C5 - 25 INTERFACE FUNCTIONS CAN BE IMPLEMENTED BY ADDITIONAL USER SOFTWARE
- SWITCH-SELECTABLE TALK/LISTEN ADDRESS

APPLICATIONS

- INSTRUMENTS SUCH AS DVM'S, COUNTERS, ETC., INTERFACED TO A COMPUTER
- DATA LOGGERS

GENERAL DESCRIPTION

The Model 3388 is a double-width CAMAC module that provides the interface between a CAMAC system (IEEE Standard 583-1975) and the General Purpose Interface Bus (also called "GPIB" or "ASCII Bus", IEEE Standard 488). This module allows digital multimeters, counters, printers, calculators, display terminals or other devices that meet the GPIB standard to be connected to a CAMAC system. In the past, the interfacing of such instruments to CAMAC often required special modules and engineering effort on a case-by-case basis. With the 3388, up to fourteen other GPIB-interfaced instruments can be connected via the standard GPIB cables.

The Model 3388 GPIB Interface Module functions as a CONTROLLER, TALKER, and LISTENER as described in IEEE Standard 488. For example, it can cause a digital multimeter to be in the TALK mode and be in the LISTEN mode itself. The DMM would then transmit data to the 3388 to be processed by the computer associated with the CAMAC system. The computer could then cause the 3388 to be in the TALK mode and a GPIB-interfaced printer to be in the LISTEN mode. Processed data from the computer would then be printed on the printer.

The 3388 can be set to the CONTROLLER IDLE state so that it can be a TALKER or LISTENER in a system that contains another CONTROLLER (such as an intelligent terminal or a desk-top calculator).

GPIB SPECIFICATION SUMMARY

Item	Description
Interconnected Devices	Up to 15 maximum on one contiguous bus.
Interconnection Path	Star or linear bus network up to 20 meters total transmission path length.
Active Signal Lines	Sixteen total: 8 data lines, 3 data transfer control lines, and 5 bus management message lines.
Message Transfer Scheme	Byte-serial, bit-parallel asynchronous data transfer using interlocked 3-wire handshake technique.
Data Rate	250 kilobytes per second over full transmission path (depends on devices).
Address Capability	Primary addresses, 31 TALK and 31 LISTEN.

