



Model 63 Priority Interrupt Register

GENERAL DESCRIPTION

The Jorway Model 63 Priority Interrupt Register is a dual-width, CAMAC compatible module which meets the requirements of EUR4100e. The 12-channel module provides two unique functions:

1. The capability of entering external interrupts onto the CAMAC Dataway, on a priority basis.
2. The capability of a fast coincidence latch.

Each of twelve fast input signals can be gated with a common strobe input to trigger a fast coincident latch. A twelve bit control register, one bit for each channel, is gated with the coincident input and strobe signal so that an individual channel can be enabled or disabled. Each bit of the control register is individually loaded from the Dataway W Lines (W1-W12). The common strobe signal is applied to all channels of the module with differences in delay times compensated for by varying lengths of internal coaxial cable used for the input signal of each channel. With no strobe input connected to the module, the strobe line will go to a logic '1' level and the module functions as a priority interrupt register. In either mode of operation, accepted inputs are transferred to storage during times when the module is not addressed on its N line (\bar{N}). Whenever the module is addressed by its N line, all data is locked in storage registers to assure readout of stable data. Logic is provided so that a reset command will not cause data in the interrupt flip flop to be lost during a Dataway cycle. The outputs of all twelve latches are wire 'OR' ed to form an internal LAM signal. A signal is generated on the module's L line whenever at least one interrupt has been received and the unit is enabled. The module generates a Q response whenever data is read out, and also whenever the LAM gate is interrogated (provided the unit is enabled). Data of each storage register is read out on a separate read line (R1 through R12).

A test feature, incorporated in the module, permits triggering of all interrupt latches in order to verify proper operation.

Each of the module's 12 channels (latches) is provided with a front panel lamp to provide visual indication that an interrupt or coincidence signal has been received.

The module's strobe input connectors are internally bridged permitting 'daisy-chain' operation with other interrupt modules. The strobe line must eventually be terminated in 50 ohms for coincidence operation.

All function codes to the module are fully decoded in order to simplify programming.