KineticSystems

3610
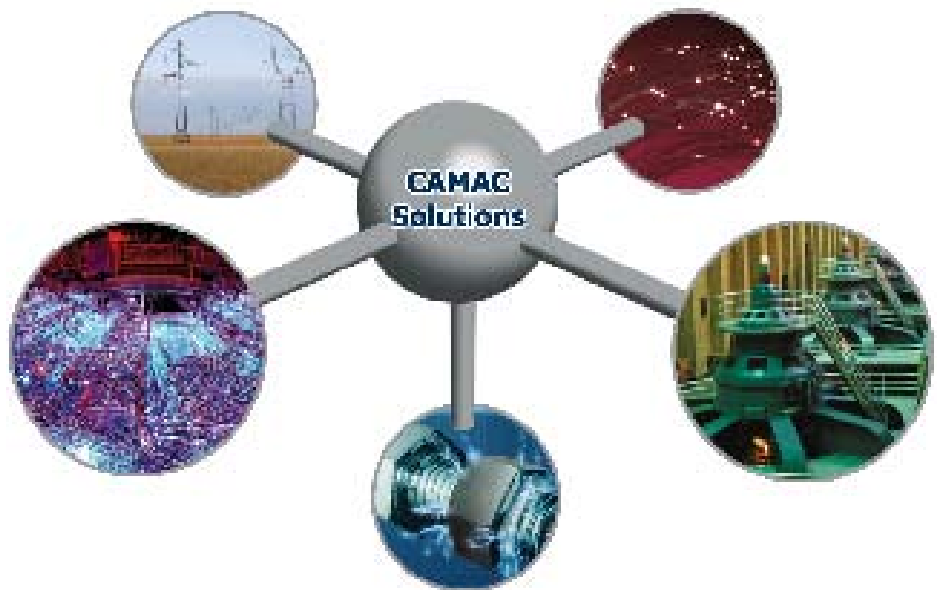## 6-channel, 50 MHZ Counter

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.

The Model 3610 is a single-width CAMAC module containing six independent 24-bit counters.

APPLICATIONS

Event counting
Nuclear counting
Frequency measurement
Totalizing

FEATURES

- Six counters
- Maximum count 16,777,215
- LAM on overflow
- TTL or NIM input
- dc to 50 megahertz

GENERAL DESCRIPTION

The Model 3610 is a single-width CAMAC module containing six independent 24-bit counters. These counters accept either NIM* or TTL input and can count from dc to 50 megahertz. The type of input is user-selectable for each channel. The external inhibit can be selected to be either NIM or TTL. Each counter has an overflow bit which is set on a carry from either Bit 16 or Bit 24 and generates a LAM, if enabled. The pattern of overflow bits in a module can be read. Counters can be inhibited by Dataway Inhibit or by a front-panel signal. They can be individually cleared by Dataway command or as a group by Dataway clear or a manual pushbutton. The input is protected for a 50 volt transient or 4 volts dc.

When precise timing of sequenced events is required, the Model 3655 Timing module provides a time base for the 3610 by asserting the Dataway Inhibit line for a programmable interval.

When the count in any counter reaches 224 (or 216 selected by a jumper), that counter rolls over and continues to count, and a corresponding overflow LAM status bit is set. The six LAM status bits are OR'ed and when enabled, produce a LAM request. The pattern of the six LAM status bits can be read to locate the specific counter that overflowed.

*The nominal NIM signal is: −16 mA into 50 for a 1, and 0 mA for a 0.

POWER REQUIREMENTS

Volts — 1200 mA
−6 volts — 330 mA

WEIGHT:

.62 kg. (1 lb. 6 oz.)

ACCESSORIES

Model 5910-Z1A	Mating Connector
Modes 5857-Axyz and 5857-Bxyz	I/O Cables

ORDERING INFORMATION

MODEL	DESCRIPTION
3610-L2A	6-channel, 50 MHz Counter

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