

Model 3672-L1A

TTL Fan-Out

INSTRUCTION MANUAL

August, 1989

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Model 3672

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3672 Schematic Drawing #

NPD:rem(WP Nick)

KineticSystems Corporation

Standardized Data Acquisition and Control Systems

3672

TTL Fan-Out

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FEATURES

- 1 X 8 or 2 X 4 fan-out
- Less than 10 nanoseconds time jitter

APPLICATIONS

- Fan-out of TTL clock or Timer strobes to multiple modules
- Simultaneous sampling

GENERAL DESCRIPTION

The Model 3672 is a single-width CAMAC module that is used to fan out either a single TTL logic pulse to eight separate outputs or two different TTL logic pulses to four separate outputs for each input. The 3672 is designed for applications which require clocking or triggering of multiple modules, such as ADCs, from a common source. It can be particularly useful in applications which demand simultaneous sampling of signals where the logic delay from regenerating the signal in a daisy-chain configuration is not acceptable. This module will accept a continuous clock rate of up to 20 megahertz and the variation in delay from channel to channel is less than 10 nanoseconds, insuring minimum uncertainty in sampling time between channels.

Each of the outputs is capable of driving 10 Schottky loads [IOUT (low) = +20 mA max, IOUT (high) = -2 mA max].

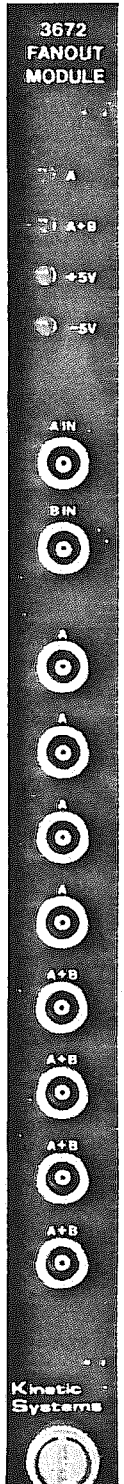
POWER REQUIREMENTS

- +6 volts — 150 mA
- 6 volts — 211 mA

ORDERING INFORMATION

- Model 3672-L1A — TTL Fan-Out
- Accessory — Model 3656 Timer-Sequencer

Weight: .49 kg. (1 lb. 1 oz.)



Model 3672

CHAPTER 1

STRAP OPTION

Two options are provided on the 3672 FAN-OUT module.

The first option only selects one TTL input and fans this signal out to eight outputs (1 x 8 operation). This is selected by placing the strap in the "A" position.

The second option selects both inputs. Each input is able to fan out to four outputs (2 x 4 operation). This option is selected by placing the strap in the "A + B" position.

FRONT PANEL LAYOUT

LED INDICATORS

- A: When this LED is on, the 3672 is in the 1 x 8 mode. Only the AIN input is enabled to fan out to all eight outputs.
- A+B: When this LED is on, this 3672 is in the 2 x 4 mode. Both AIN and BIN inputs are enabled. The AIN input will only fan out to the outputs labeled A. The BIN input will only fan out to the outputs labeled A+B.
- +5V: This LED indicates that the status of the +5 volt supply on the 3672 module. When the LED is on, +5 volts is present.
- 5V: This LED indicates that the status of the -5 volt supply on the 3672 module. When the LED is on, -5 volts is present.

INPUT LEMO CONNECTORS

- AIN: This input is used in both 1 x 8 and 2 x 4 mode of operation.
- BIN: This input is used only in the 2 x 4 mode of operation.

OUTPUT LEMO CONNECTORS

- A: These four outputs are connected to the AIN input in either mode of operation.
- A+B: These four outputs are connected to the AIN input when 1 x 8 mode of operation is selected. When 2 x 4 mode is selected, these four outputs are connected to the BIN input.

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2. Obtain a Return Authorization (RA) Number.
3. Initiate a purchase order for the estimated repair charge if the product is out of warranty.
4. Include a description of the problem and your technical contact person with the product.
5. Ship the product prepaid with the RA Number marked on the outside of the package to:

KineticSystems Company, LLC
Repair Service Center
900 North State Street
Lockport, IL 60441

Telephone: (815) 838-0005
Facsimile: (815) 838-4424
Email: tech-serv@kscorp.com