

## TC-616 DIGITAL BACKPLANE ADAPTER FUNCTIONAL DESCRIPTION

REV 1.02 03/31/93 WJS

The TC-616 Backplane Adapter is used to mount and interface up to four Triad TC-326 Digital Input and/or TC-316 Digital Logic Output cards in a three rack unit (5.25") 19" rack mount card frame. Four 22/44 .156 card edge connectors are provided for the I/O cards, and are mounted on 1" centers.

Multiplexed data and strobe signals are terminated using a six pin molex KK series connector, while digital input and output terminations are brought out to a dual 20 (40 pin) IDC connector for each card. The IDC connectors are normally connected to DB-37F connectors for digital outputs, DB-37M connectors for digital inputs, or can be brought to terminal strip breakout boards, such as the Triad TC-638 or others made by Phoenix, 3M, etc.

Provision is made to supply 24 VDC power for bussing to the input or output connectors to energize small relays, valves, solid state relays or other control devices and to provide a reference voltage for switch closures or sensors used with input modules.

Regulated 5 VDC and its associated common is required to power the digital circuitry on the cards. Less than 1 AMP of +5 VDC is used on a fully loaded backplane. Up to two TC-616 backplanes may be mounted per card frame.

The TC-616 is normally used in Triad LDC/SCU (Laser Disc Controller) and CTU (Central Terminal Unit) card frames.

For higher current drive applications, please refer to the TC-613 Backplane and TC-3161 16 Channel Digital Output cards.

### Physical Dimensions:

5" x 4.375" printed circuit assembly

### Related Documents:

SC-7.12 Pin assignment and cable information

## PIN ASSIGNMENTS

### 6 PIN MOLEX .1" KK MULTIPLEX DATA CONNECTOR

1	
2	
3	
4	
5	Data In (TTL)
6	Strobe (TTL)

### 40 PIN HEADER/TC-316 OUTPUT MODULE

### 40 PIN HEADER/TC-326 INPUT MODULE