



Features

- Single Slot VXIbus Module
- 28 V dc or 73 V dc outputs
- Source 140 mA per channel (28 V dc)
- 120 Single-Ended or
60 Differential Channels
- Amplitude Programmability in
Groups of 12
- Flexible Triggering Mechanisms
- Overcurrent Protection per Channel
- VXI *plug&play* drivers

Ordering Information

VT1802 120-channel High Voltage Digital I/O

VT1802

120-channel High Voltage Digital I/O

Overview

The VT1802 is a high-performance high voltage I/O module with ten groups of 12 channels for a total of 120 channels per module. Each group of channels may be configured as an input or output under program control. Individual channels can be set to tri-state mode. In the output mode, each group can be configured with either 28 V or 73 V levels. Logic programmability (high/low) is on a per channel basis. Two level sensitive trigger inputs provide the flexibility to set external input conditions that must be met before a channel is enabled.

The VT1802 is an ideal module for multiple channel I/O applications which require the capability to source up to 140 mA per channel. Each channel has built-in overcurrent protection ensuring that the board will not be damaged if its specifications are exceeded.

Specifications

Data Input Characteristics (28 V/73 V):

Programmable threshold in groups of 12 channels
18 mV resolution

Data Output Characteristics (28 V):

Vout (high) 28 V
Vout (low) 0 or 2.5 V programmable
Current (source): 140 mA max per channel
Current (sink): 140 mA max per channel

Data Output Characteristics (73 V):

Vout (high) 73 V
Vout (low) 0 or 2.5 V programmable
Current (source): 140 mA max per channel
(2.4 A max for all channels)
Current (sink): 140 mA max per channel

I/O Type: Single-Ended or Differential

Trigger Sources: 2

External Trigger Inputs: External/Software/TTL0-7

External Trigger Level: TTL

Cooling Dissipated: 150 W
(worst case)

Overcurrent Protection: Per channel

External Power Supply 48 V dc, 10 A minimum
(not supplied):

Front Panel Connectors (supplied)

I/O: 160p DIN
Power: 7p D-Sub