VXI Technology™

8-bit Isolated Digital I/O SCP

Overview

The VXI Technology VT1536A 8-bit Isolated Digital I/O SCP provides eight bits (channels) with individually programmable threshold levels of 5 V, 12 V, 24 V, or 48 V. Channels are clamped at about 60 V by a "crowbar" protection circuit.

Each channel can be configured as an input port or an output port. Both inputs/outputs have programmable polarity.

The outputs are optically isolated solid state ac/dc Form A relay outputs with a 10 Ω on resistance and 200 mA carrying current capability. The inputs are optically isolated with programmable threshold levels and debounce.

Use the VT1536A with the following VXI modules:

Model	Description
VT1415A	Algorithmic Closed Loop Controller
VT1419A	Multifunction Measurement and Control Module
VT1422A	Remote Channel Multifunction DAC

Refer to the VXI Technology Website for recent product updates, if applicable.

Specifications

Output Characteristics

Maximum continuous voltage: 56 V dc (39 V rms)

Peak current load: 200 mA

Relay on resistance: 10 Ω

Turn on/turn off time: 3 ms

Clamping voltage: 60 V

Input Characteristics

Maximum continuous voltage: 56 V dc (39 V rms)

Maximum input zero:

5 V threshold:	1.4 V
12 V threshold:	2 V
24 V threshold:	3 V
48 V threshold:	5 V

Minimum input one:

5 V threshold:	2.1 V
12 V threshold:	7 V
24 V threshold:	13 V
48 V threshold:	25 V

Input debounce time: 150 µs - 2.4 s in binary increments

Current Requirements (Amps)

5 V max	24 V max	-24 V max
0.072	0	0

Features

Use with VT1415A/VT1419A/VT1422A

8 TTL Input/Output Lines Isolated to 56 V dc

Programmable Threshold Levels of 5 V, 12 V, 24 V, or 48 V

Programmable Debounce Timer

Ordering Information

VT1536A	8-bit Isolated Digital I/O SCP

VT1536A