

SM73A308 96-channel 300mA Open-Collector VT4802 96-channel Digital I/O TTL/CMOS



TTL/CMOS, Open-collector, or Relay Drivers
High-channel Count Pre-configured I/O Modules
Modules Come with Tektronix VX4802 and 73A308 Translation Drivers and Pin-Mapping
VXI *plug&play* Drivers
Controlled in Groups of 8 as Input or Output



Overview

The VT4802 and SM73A308 are high-performance I/O modules, each with twelve groups of 8 bits (96 channels). Each group of 8 bits may be configured as an input or output under program control or via the front panel control line. The inputs and outputs may be either single buffered to provide real time data access or double buffered to provide synchronized data input and/or output. These modules are configured to replace the obsolete Tektronix VX4802 and 73A308, and come with translation instrument drivers and appropriate pin-mapping documentation.

Triggering and Handshaking

The VT4802 has the flexibility to source the input and output clocks from either the front panel (one input per group of 8 bits), the backplane TTL trigger bus or via a word serial command. By using the appropriate clocking sources, very large numbers of channels may be synchronized to collect or present data to a UUT. The ability to source the input and output clocks from the VXIbus TTL trigger lines allows the user to send a trigger to the VXIbus backplane if a certain event is detected. This is done by monitoring one of the six clock inputs, and adds a very useful feature not found in other VXIbus digital I/O cards. By connecting the clock lines to the VXIbus trigger lines and interfacing them to the UUT clock lines, the UUT can handshake between other VXIbus devices, such as the host controller.

For more detailed specifications and additional features, please refer to the individual data sheets (VM1548 TTL I/O, SMP7500 300mA Open-collector I/O).

General Specifications

VT4802

Number of Channels: 96

Data Input: V in (high) > 2.0 volts
V in (low) < 0.8 volts
I in (V in = 2.7V) < 70µA
I in (V in = 5.0V) < 1mA
I in (V in = 0.5V) < -1mA

Data Output: V out (high) > 2 volts** @ -15mA
V out (low) < 0.55 volts** @ 64mA
** Voltages are with the damping resistors removed and replaced with shorts

SM73A308

Number of Channels: 96

Data Input: V in (high) > 2.0 volts
V in (low) < 1.5 volts
V in (max) 60 volts

Data Output: V out (high) > 2 - 60 volts
V out (low) < 1.5 volts @ 300A

Ordering Information

VT4802 96 channel I/O, TTL/CMOS
SM73A308 96 channel open-collector/relay driver