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96 Channel Static Digital Model VX442C

The VX442C module provides 96 channels of general purpose digital input/output with drive/sense/mask with interrupt on failure. Input values can be read on-the-fly or be latched on software command, on receipt of an external trigger, or on a comparison error following a trigger. Data can be latched immediately on a trigger or after a programmed delay. Versatile triggering allows synchronization of multiple boards across the backplane. Interrupts can be generated on the occurrence of a trigger or on a comparison error.



SPECIFICATIONS

Input Characteristics

Device type:	74ALS245
V _{IH}	2.0 V min
V _{IL}	0.7 V max
I _{IH}	20 μ A max
I _{IL}	-0.1 mA max

Output Characteristics

Device type:	74ABT126
V _{OH}	3.0 V min
V _{OL}	0.35 V max
I _{OH}	-32 mA max
I _{OL}	64 mA max

Inputs have 100 k Ω pull-up resistors, which may have a minor (50 μ A) effect on the input characteristics.

Pull-up resistors on the inputs provide a stable high level for unconnected inputs.

All input (drive) and output (sense) devices are socketed for easy replacement.

I/O Ports

I/O divided into six 16-bit ports
Ports synchronized via common triggers

Trigger Sources

Software board trigger
Software port trigger
VXI TTL TRIG signals
Front panel signals

Triggers can be applied immediately (rising or falling edge) or delayed from 125 ns to 16 μ s.

Interrupts (programmable)

IRQ1-7 or disabled from any board trigger
Rising or falling trigger edge

Connectors

Three 78-pin metal shell DSUB receptacles (HD-22 w/screwlocks)

Temperature

Operating: 0° C to 55° C
Storage: -40° C to 75° C

Power:

+5 V @ 1.8 A

VXIbus Compliance

Complies with Vxlbus Spec. Rev 1.4 for single-slot C-size modules.
Device Type: Register Based
Addressing: A16
Data Transfers: D16 Slave
Memory Space: None
Interrupts: Programmable
Triggers: Supported
Bus Arbitration: BRx tied to BGx

Applications

General purpose digital I/O
Static digital

Ordering Information

Part Number: 11028630-0001