VX442C
96 Channel
Static Digital

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}	2.0V min
V_{IL}	0.7V max
I_{IH}	20µA max
I_{IL}	-0.1mA max

Output Characteristics:

Device type	74ABT126
V_{OH}	3.0V min
V_{OL}	0.35V max
I_{OH}	-32mA max
I_{OL}	64mA max

Inputs have 100KΩ pull-up resistors, which may have a minor (50µA) 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 TTLTRIG signals
- Front panel signals

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

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: +5V @ 1.8 A

VXIbus Compliance

Complies with VXIbus 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 Test

Ordering Information

Part Number   11028630-0001

Additional Information

User Manuals for C&H carriers and this module can be found on our website at www.chtech.com.