

The V385 is a single-width, C-size, register-based, VXIbus module containing a 16-bit input gate, a 16-bit output register, a 1-bit status input, and four 500 ms pulse outputs.

Full handshaking is provided for the input gate and output register.

## APPLICATIONS

Test cells  
Accelerator control systems  
Interfacing to subsystems requiring digital monitoring and control

## V385 16-channel Digital Input/Output



Provides general-purpose interfacing of TTL or HTL signals

## FEATURES

- 16-bit I/O with handshaking
- Four control pulses and one status bit
- Complete interrupt capability
- HTL and TTL signal options available

### GENERAL DESCRIPTION

The V385 is a single-width, C-size, register-based, VXibus module containing a 16-bit input gate, a 16-bit output register, a 1-bit status input, and four 500 ms pulse outputs. Full handshaking is provided for the input gate and output register. The handshaking signals can be tested; they can also generate an interrupt. The module can be used without handshaking, if desired.

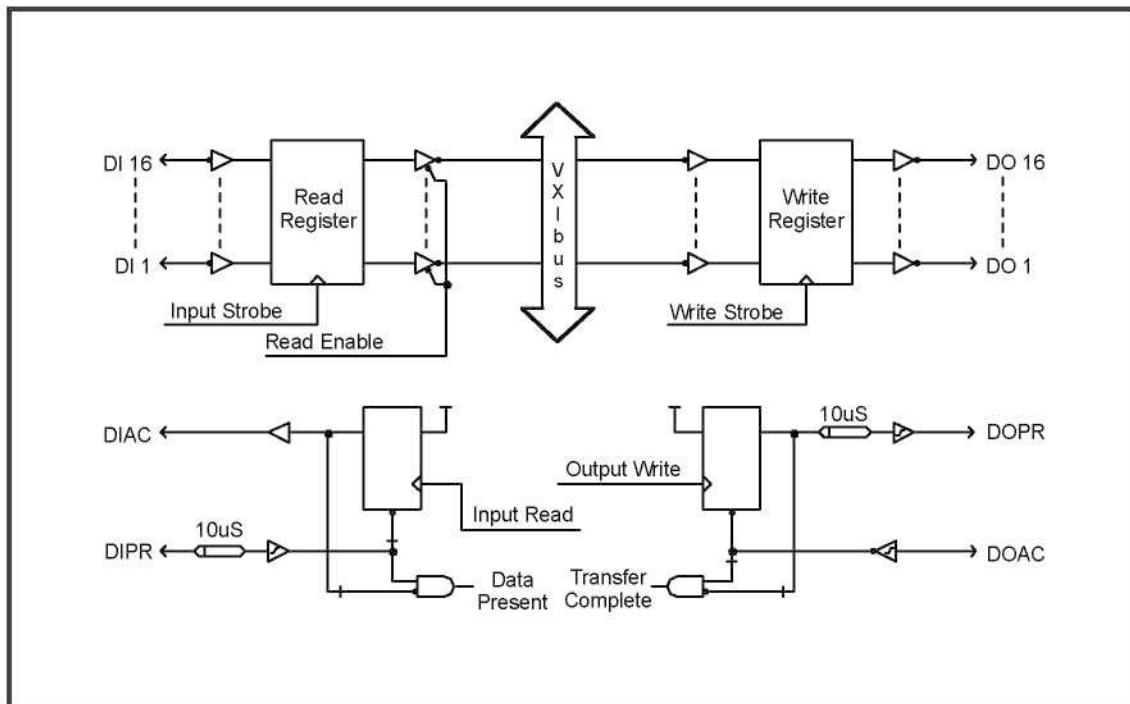
Each of the four pulsed control outputs can drive loads up to 100 mA and +24V. The V385 can be ordered with all external signals using high threshold logic (HTL) or TTL interfaces. With the HTL option, the data and status inputs recognize a logic "1" as being 1 to 6 V, and a logic "0" as being 8 to 15 V.

Commands are available for writing the entire 16-bit output register, for writing eight bits at a time, and for writing four bits at a time. This allows the module to drive independent 4-bit or 8-bit devices.

All I/O signals are brought to a 50-contact "D" type connector on the module's front panel.

The V385 supports both static and dynamic configuration. Access to the data is through memory locations indicated by the Offset Register within the VXibus Configuration Register set, using A24/A16, D16 data transfers.

Item	Specification
Number of Channels	32: 16 inputs, 16 outputs
Data Inputs	
Input voltage	
TTL option	0-5 V
HTL option	0-15 V
Low-level input current	
TTL option	1 mA
HTL option	1 mA
Switching threshold	
TTL option	+2 V
HTL option	+7 V
Data Outputs	
Output voltage	
TTL option	0-5 V
HTL option	0-15 V
Output sinking current (V <sub>Q</sub> = 0 Volts)	
TTL option	30 mA
HTL option	30 mA
Switching threshold	
TTL option	+2 V
HTL option	+7 V
Output Control Pulses Width	500 ms
I/O Connector Type	50 P "D"
Mating connector	KineticSystems Model 5934-Z1A
Power Requirements:	
+5 V	1.8 A, typical
+24 V (HTL option only)	50 mA, typical
Environmental and Mechanical	
Temperature range	
Operational	0°C to +50°C
Storage	-25°C to +75°C
Relative humidity	0 to 85%, non-condensing to +40°C
Cooling requirements	10CFM
Dimensions	340 mm x 233.35 mm x 30.48 mm (C-size VXibus)
Front-panel potential	Chassis ground





#### RELATED PRODUCTS

Model 5851-Bxyz Cable—50S "D" to Unterminated  
Model 5851-Dxyz Cable—50S "D" to 50S "D"  
Model 5851-Exyz Cable—50P "D" to 50S "D"  
Model 5934-Z1A Connector—50S "D"

#### ORDERING INFORMATION

MODEL	DESCRIPTION
V385-EA11	16-channel Digital Input/Output; TTL-level signals
V385-EB11	16-channel Digital Input/Output; HTL-level signals

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