

The V620 is a single-width, C-size, register-based, VXIbus module that contains four independent, presettable, 16-bit up-down counters.

These counters accept TTL signals at rates ranging from dc to 20 MHz.

APPLICATIONS

Test cells
Nuclear accelerator control and monitoring
General-purpose counting

V620 4-channel, Up/Down Presettable Counter



Counts up or down from dc to 20 MHz with TTL-level signals

FEATURES

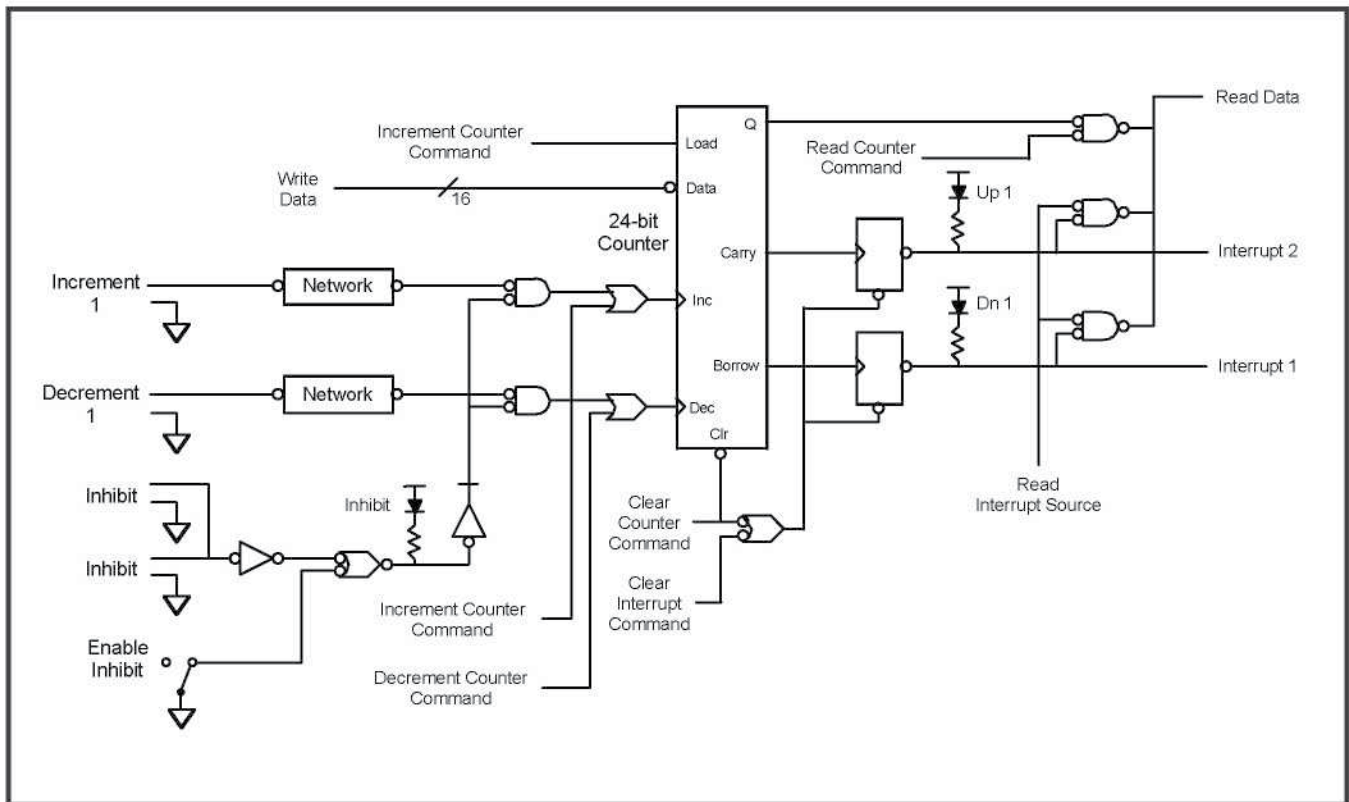
- TTL-level inputs
- Counting rates from dc to 20 MHz
- Separate up/down inputs
- Capacity of 65,535 counts per channel
- Overflow and underflow interrupt source bits for each channel
- Separate clear command for each channel

The V620 is a single-width, C-size, register-based, VXibus module that contains four independent, presetable, 16-bit up-down counters. These counters accept TTL signals at rates ranging from dc to 20 MHz. All inputs are protected for transients up to ± 50 V. Each counter can be read as well as written from software.

An external Inhibit signal can be used to gate off all counters. Each counter has both an overflow bit and an underflow bit which are set on a carry/borrow from bit 16, and generate interrupts, if enabled. (Counters continue to increment after the overflow condition has occurred.) The resulting eight interrupt source bits can be read and cleared individually or in pairs as the associated counter is cleared. The interrupt source bits are ORed, and a single enable permits an interrupt request to be initiated.

In addition to the eight counter input connectors and the two bridged connectors for the external Inhibit signal, the V620 front panel contains a light emitting diode (LED) indicating that interrupt requests are enabled and a LED indicator for each of the eight interrupt source bits.

The V620 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	4
Input Signals	TTL-level
Maximum Clock	20 MHz
Maximum Count Value	65,535 (16 bits)
Input Connector Types	Single-pin LEMO receptacle, shell size 00
Mating Connectors	KineticSystems Model 5910-Z1A
Power Requirements +5 V	2.4 A, 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	10 CFM
Dimensions	340 mm x 233.35 mm x 30.48 mm (C-sized VXIbus)
Front-panel potential	Chassis ground

RELATED PRODUCTS

- Model 5857-Axyz Cable—1-contact LEMO to Unterminated
Model 5 85 7-Bxyz Cable— 1 -contact LEMO to 1 -contact LEMO
Model 5857-Hxyz Cable—1-contact LEMO to BNC shielded
Model 5 910-Z1A Connector— 1 -contact LEMO

ORDERING INFORMATION

MODEL	DESCRIPTION
V620-LA11	4-channel, Up/Down Presettable Counter

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