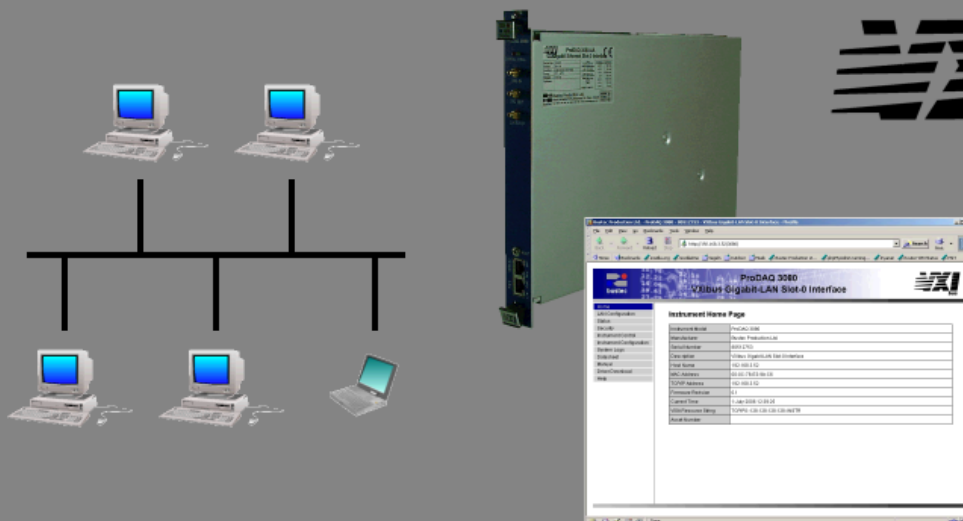


3080

VXIbus

GIGABIT

ETHERNET  
INTERFACE



- Gigabit Ethernet VXIbus Interface
- Supports VXI Standard Rev. 3.0 2eVME Block Transfers
- Access and Configuration via the Embedded Web Interface
- Standard Software Interfaces for easy Integration
- Up to 50 MB/s block transfer rates

POWER

### General

The ProDAQ 3080 VXIbus Gigabit Ethernet Slot-0 interface provides access to VXIbus instruments through a standard Gigabit Ethernet interface using the VXI-11 protocol. It is designed to function as a bridge between the established, time-tested and proven base of VXIbus instruments and the Ethernet, allowing you to build any size of test and measurement system simply by connecting the instruments via standard LAN to your computer.

### VXIbus Interface

The ProDAQ 3080 utilizes the new Tundra Tsi148 bridge to support the 2eVME block transfers specified in the revision 3.0 of the VXI standard in addition to all standard transfer modes. This allows for high-speed data transfers of up to 50 MB/sec using block transfer modes while maintaining backward compatibility to existing VXI rev. 1.3, 1.4 and 2.0 instruments. Optimized for low first-word latency, the ProDAQ 3080 is able to achieve a first-word latency of app. 120  $\mu$ sec using standard ethernet infrastructure.

### Software Interface

The ProDAQ 3080 is fully compliant to the *VXIplug&play* standard. Access to the 3080 and the VXIbus instruments is provided through a standard VISA library. This allows for backward compatibility with existing *VXIplug&play* drivers and application software. The VXIbus resource manager is embedded in the 3080 firmware and automatically executed at power-up. The embedded WEB interface allows to configure and control the ProDAQ 3080 VXIbus Gigabit LAN Slot-0 interface and provides access to the VXIbus instruments via a standard WEB browser.



<b>Ethernet Interface</b>		
Type	10/100/1000 BASE-TX	
Connector	RJ-45	
Protocols	TCP/IP, HTTP, VXI-11	
<b>Device Type</b>	Register-based VXIbus slot-0 controller	
<b>Slot-0 Capabilities</b>	Automatic slot-0/non-slot-0 detection Full MODID/CLK10 support if in slot 0	
<b>VXIbus Interface</b>		
Address Ranges	A16, A24, and A32	
Data Transfer	D08, D16, D16BLT, D32, D32BLT, D64MBLT, 2eVME	
Interrupt Cap.	Interrupter/Handler, IRQ 1-7	
Trigger Lines	VXIbus TTL Trigger 0-7, VXIbus ECL Trigger 0-1	
<b>Front Panel I/O</b>		
Trigger Input	TTL Level, active edge software selectable (Can be routed to VXIbus TTL and ECL trigger lines)	
Trigger Output	TTL Level, active level software selectable (Can be driven by VXIbus TTL and ECL trigger lines)	
CLK10 Input	TTL Level	
CLK10 Output	TTL Level	
<b>Current Consumption (max)</b>	Voltage (V)	Current (mA)
	+24	80
	+12	15
	+5	5600
	-2	50
	-5.2	150
	-12	10
	-24	0
<b>Dimensions</b>	VXIbus Single-Slot C-Size Module	
<b>Weight</b>	1150 gr.	
<b>Operating Temperature</b>	0° C to 50° C	
<b>Storage Temperature</b>	-40° C to 70° C	
<b>Shock and Vibration</b>		
Functional Shock	30g peak, half-sine, 11 ms puls <small>(Test performed in accordance to IEC 60068-2-27 and MIL-T-28800E Class 3.)</small>	
Random Vibration	5 to 500 Hz, 0.3g <sub>RMS</sub> operational 5 to 500 Hz, 2.4g <sub>RMS</sub> non-operational <small>(In accordance with IEC 60068-2-64 and MIL-T-28800E / MIL-STD-810E Meth. 514.)</small>	
<b>Software Support</b>	VXIplug&play compatible VISA library. Contact Bustec Production Ltd. for more information.	

#### Ordering Information

3080-AA VXIbus Gigabit LAN  
Slot-0 Interface

#### Related Products:

3180-AA Ultra-perf. Motherboard  
3410-Ax 24-Ch. Multiplexed ADC FC  
3411-Ax 24-Ch. Enhanced ADC FC  
3430-xx 4-Ch. 16-bit Sigma-Delta ADC  
3424-xx 8-Ch. 24-bit Sigma-Delta ADC  
3510-xx 16-Ch. DAC Function Card  
3550-xx 2-Ch. AWG Function Card  
3610-Ax 48-Ch. Digital I/O FC  
3808-AA 8-Ch. Counter/Frequency Meter

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