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# ProDAQ VXI Data Acquisition Systems

## ProDAQ 3080 Gigabit Ethernet VXIbus Interface



## OVERVIEW

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, proven base of VXIbus instruments and the Ethernet, allowing users to build any size of test and measurement system simply by connecting the instruments via standard LAN to a computer.

### VXIbus Interface

The ProDAQ 3080 utilizes the 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/s using block transfer modes while maintaining backward compatibility with 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 µsec using standard Ethernet infrastructure.

### Software Interface

The ProDAQ 3080 is fully compliant to the VXIplug&play standard. Access to the ProDAQ 3080 and the VXIbus instruments are 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 ProDAQ 3080 firmware and automatically executed at power-up. The embedded WEB interface allows users to configure and control the ProDAQ 3080 VXIbus Gigabit Ethernet slot-0 interface and provides access to the VXIbus instruments via a standard WEB browser.

## Features & Benefits

- **Gigabit Ethernet VXIbus interface** using standard VXI-11 protocol
- Up to **50 MB/s block transfer** rates
- **Support for 2eVME block transfers** introduced in VXI Standard Rev. 3.0
- Access and configuration via the **embedded Web interface**
- Standard software interfaces for **easy integration**

For more information, visit **www.bustec.com**.

Learn more about the **ProDAQ 3080** on our website by scanning the code below.

# SPECIFICATIONS

## ETHERNET INTERFACE

| | |
|---|---|
| Type | 10/100/1000 BASE-TX |
| Connector | RJ-45 |
| Protocols | TCP/IP, HTTP, VXI-11 |

## DEVICE TYPE

Register-based VXIbus slot-0 controller

## SLOT-0 CAPABILITIES

Automatic slot-0/non-slot-0 detection with full MODID/CLK 10 support if in slot 0

## VXIBUS INTERFACE

| | |
|---|---|
| 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 |

## FRONT PANEL I/O

| | |
|---|---|
| Trigger Input | TTL level, active edge software selectable<br>(Can be routed to VXIbus TTL and ECL trigger lines) |
| Trigger Output | TTL level, active level software selectable<br>(Can be driven by VXIbus TTL and ECL trigger lines) |
| CLK10 I/O | TTL level |

## POWER REQUIREMENTS

| Current Consumption | Voltage (V) | Current (mA) |
|---|---|---|
| | +24 | 80 |
| | +12 | 15 |
| | +5 | 5600 |
| | -2 | 50 |
| | -5.2 | 150 |
| | -12 | 10 |
| | -24 | 0 |
| Power Consumption | < 31.1 W | |

## SHOCK AND VIBRATION

| | |
|---|---|
| Functional Shock | 30g peak, half-sine, 11 ms pulse<br>(Test performed in accordance to IEC 60068-2-27 and MIL-T-28800E Class 3) |
| Random Vibration | 5 to 500 Hz, 0.3$g_{RMS}$ operational<br>5 to 500 Hz, 2.4$g_{RMS}$ non-operational<br>(In accordance with IEC 60068-2-64 and MIL-T-28800E / MIL-STD-810E Meth. 514) |

## PHYSICAL CHARACTERISTICS

| | |
|---|---|
| Dimensions | VXIbus single slot C-size module |
| Weight | 1150 g |

## ENVIRONMENTAL

| | |
|---|---|
| Temperature | 0°C to +50°C (operational)<br>-40°C to +70°C (storage only) |
| Humidity | 10% - 90% (non-condensing) |

## SOFTWARE SUPPORT

VXI*plug&play* compatible VISA library for Microsoft Windows
(Contact Bustec Ltd. for more information)

## WARRANTY PERIOD

12 months (extended periods available at additional cost)

## Ordering Information

- **3080-AA** Gigabit Ethernet VXIbus interface
- **3080-BA** Gigabit Ethernet VXIbus interface, 2 Ethernet Ports

### Related Products

- **3180-AA** Ultra-performance motherboard module
- **3416-xx** 16-ch, 24-bit, sigma-delta ADC function card
- **3424-xx** 8-ch, 24-bit, sigma-delta ADC function card
- **3430-xx** 4-ch, sigma-delta ADC function card
- **3510-xx** 16-ch DAC function card
- **3550-xx** 2-ch, fast DAC arbitrary waveform generator
- **3610-Ax** 48-ch DIO function card
- **3808-AA** 8-ch, 100 MHz counter/timer/frequency meter function card

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