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Data Sheet

August 15, 2026

BUSTEC

Bustec ProDAQ 3020-AB USB 2.0 VXI Slot-0 Interface

The Bustec ProDAQ 3020-AB is a USB 2.0 Slot-0 Interface module designed for use with ProDAQ LXI and PXI systems. This interface enables seamless communication between a host computer and ProDAQ modules, providing a convenient and efficient solution for data acquisition and control applications.



MODEL

Bustec 3020-AB

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3020-AB

LISTING

<https://aumictechlabs.com/products/3020-ab-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Bustec ProDAQ 3020-AB USB 2.0 Slot-0 Interface is a C-size, register-based VXIbus module that establishes a direct, high-speed communication link between a host computer's USB 2.0 port and a VXIbus backplane. This interface can function as a Slot-0 controller, enabling seamless data acquisition and control for ProDAQ LXI and PXI systems. It has automatic detection of its Slot-0 status within a VXI mainframe, adapting its capabilities accordingly. The ProDAQ 3020-AB specifically includes an integrated GPIB port, allowing for the control of GPIB devices within the test system via the USB connection. It is compatible with Pentium-based PC systems equipped with USB 1.1 or USB 2.0 host controllers, with USB 2.0 recommended for full performance. The interface supports hot-plugging and hot-swapping of USB devices. Technical Specifications

General Interface: Model: Bustec ProDAQ 3020-AB Type: USB 2.0 Slot-0 Interface VXIbus Module
Size: C-size Device Type: Register-based VXIbus module Slot-0 Capabilities: Automatic detection of Slot-0 operation with support for MODID and CLK10 when in Slot-0. Host Computer Requirements: Pentium-based PC compatible computer with USB 1.1 or USB 2.0 host controller. USB 2.0 host controller required for maximum performance. Hot Plug-in/Swap: Supported.
Interfaces: Host Interface: USB 2.0 (High-speed compliant, up to 480 Mbps) VXIbus Interface: * Address Ranges: A16, A24, A32 * Data Transfer Modes: D08, D16, D16BLT, D32, D32BLT, D64MBLT * Interrupt Capability: Interrupter/Handler, IRQ 1-7 * Trigger Lines: VXIbus TTL Trigger 0-7, VXIbus ECL Trigger 0-1 Optional Interfaces: * GPIB Port: IEEE 488.2 standard, integrated Ines iGPIB 72010 (NEC7210C/TMS9914A compatible) controller. Data Throughput: Maximum Throughput: Up to 38 MB/s (with Tundra Universe Slave/D64MBLT Protocol). Front Panel I/O: 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 I/O: TTL level. GPIB Port Connector: Standard 24-pin IEEE 488 connector (for -AB model). Power Requirements: Voltage: * +5V: 900 mA typical, 1400 mA maximum * -5.2V: 300 mA maximum * -2V: 300 mA maximum Power Consumption: < 9.2 W
Physical Characteristics: Dimensions: VXIbus single slot C-size module. Weight: 950 g
Environmental: Operating Temperature: 0°C to +50°C Storage Temperature: -40°C to +70°C Humidity: 10% to 90% (non-condensing) Software Support: Compatibility: VXIplug&play compatible VISA library. Operating Systems: Microsoft Windows (32-bit, 64-bit), VxWorks, and Linux. (Contact Bustec Ltd. for specific Linux driver information). Drivers: VXIplug&play driver revision 4.3.1 for Windows 32/64-bit systems is available. Compatibility Notes: Does not extend the VXI backplane between mainframes in a multi-mainframe system. If used as a slot-0 controller in a D-size mainframe, it cannot provide control for instruments using the additional features of the P3 connector (CLK100, Star Trigger, add. Trigger and Local Bus Lines) as it is a C-size module. Why Choose Aumictech for Bustec ProDAQ 3020-AB USB 2.0 Slot-0 Interface? At Aumictech, we specialize in supplying high-end data acquisition and test equipment. Whether you need seamless PC to VXIbus integration, enhanced data throughput for complex applications, or the convenience of a built-in GPIB interface, our team ensures the Bustec ProDAQ 3020-AB USB 2.0 Slot-0 Interface delivers maximum performance and reliability for your engineering and procurement needs.

3020AB Characteristics / Specifications

PARAMETER	VALUE
Model	3020-AB
Instrument Type	USB 2.0 VXIbus slot-0 interface
Family	Bustec ProDAQ 3020
Form Factor	VXI C-size single slot
Device Type	register-based VXIbus module
Host Interface	USB 2.0 hot-plug
Throughput Universe	up to 38 MB/s Tundra Universe slave D64MBLT
Throughput D	up to 25 MB/s ProDAQ 3150 slave D64MBLT
Address Ranges	A16, A24, and A32
Data Transfer	D08, D16, D16BLT, D32, D32BLT, D64MBLT
Interrupt Capability	interrupter/handler IRQ 1-7
Ttl Triggers	VXIbus TTL trigger 0-7
Ecl Triggers	VXIbus ECL trigger 0-1
Slot Zero	automatic slot-0/non-slot-0 with MODID and CLK10
Gpib Port	IEEE 488.2, Ines iGPIB 72010 (NEC7210C/TMS9914A compatible)
Trigger Input	TTL, active edge software selectable
Trigger Output	TTL, active level software selectable
Clk	TTL level I/O
Plus Five Current	900 mA typical, 1400 mA maximum
Minus Five Two Current	300 mA maximum at minus 5.2 V
Minus Two Current	300 mA maximum at minus 2 V
Power Consumption	less than 9.2 W
Weight	950 g
Operating Temperature	0 C to 50 C
Software	VXIplug and play VISA for Windows, VxWorks, and Linux

PARAMETER	VALUE
Siblings	3020-AA USB only; 3020-BA trigger chaining; 3020-BB chaining plus GPIB
Manufacturer	Bustec
Literature	Bustec ProDAQ 3020 USB 2.0 VXIbus Slot-0 Interface data sheet

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Software	VXIplug and play VISA for Windows, VxWorks, and Linux
Siblings	3020-AA USB only; 3020-BA trigger chaining; 3020-BB chaining plus GPIB
Manufacturer	Bustec
Literature	Bustec ProDAQ 3020 USB 2.0 VXIbus Slot-0 Interface data sheet Notes From Bustec ProDAQ 3020 USB 2.0 VXIbus Slot-0 Interface data sheet (3020-AB GPIB variant). Cable lengths and multi-crate trigger timing are on the 3020 user manual; do not invent them.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	3020-AB
Instrument Type	USB 2.0 VXIbus slot-0 interface
Family	Bustec ProDAQ 3020
Form Factor	VXI C-size single slot
Device Type	register-based VXIbus module
Host Interface	USB 2.0 hot-plug
Throughput Universe	up to 38 MB/s Tundra Universe slave D64MBLT
Throughput D64	up to 25 MB/s ProDAQ 3150 slave D64MBLT
Throughput D32	up to 22 MB/s ProDAQ 3150 slave D32BLT
Address Ranges	A16, A24, and A32
Data Transfer	D08, D16, D16BLT, D32, D32BLT, D64MBLT
Interrupt Capability	interrupter/handler IRQ 1-7
Ttl Triggers	VXIbus TTL trigger 0-7
Ecl Triggers	VXIbus ECL trigger 0-1
Slot Zero	automatic slot-0/non-slot-0 with MODID and CLK10
Gpib Port	IEEE 488.2, Ines iGPIB 72010 (NEC7210C/TMS9914A compatible)
Trigger Input	TTL, active edge software selectable
Trigger Output	TTL, active level software selectable
Clk10	TTL level I/O
Plus Five Current	900 mA typical, 1400 mA maximum
Minus Five Two Current	300 mA maximum at minus 5.2 V
Minus Two Current	300 mA maximum at minus 2 V
Power Consumption	less than 9.2 W
Weight	950 g
Operating Temperature	0 C to 50 C
Software	VXIplug and play VISA for Windows, VxWorks, and Linux

PARAMETER	VALUE
Siblings	3020-AA USB only; 3020-BA trigger chaining; 3020-BB chaining plus GPIB
Manufacturer	Bustec
Literature	Bustec ProDAQ 3020 USB 2.0 VXibus Slot-0 Interface data sheet

Notes

From Bustec ProDAQ 3020 USB 2.0 VXibus Slot-0 Interface data sheet (3020-AB GPIB variant). Cable lengths and multi-crate trigger timing are on the 3020 user manual; do not invent them.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.