

PRODUCT DATA

PULSE™ VXI Front-end Driver Type 3099-D

Through the VXI Front-end Driver, Brüel & Kjær's PULSE Data Acquisition software can acquire data from VXI Hardware for use in:

- PULSE LabShop Real-time Analysis
- PULSE Time Data Recorder
- PULSE Reflex post-processing tools

The driver also supports generator output for PULSE applications such as Modal Test Consultant.

PULSE VXI Front-end Driver can coexist with Test for Ideas with VXI so you can run both systems on the same computer.

The driver supports a variety of VXI modules and the related communication interfaces work with the standard PULSE Front-end Setup utility to select and connect the front-end.

In PULSE, a VXI setup is represented as a single entity even if several daisy-chained mainframes are present. All clock, trigger and command synchronization between mainframes is handled automatically and the cross-channel phase accuracy is kept within specifications.

Uses

- Controlling VXI modules from PULSE
- Controlling data-stream from VXI to PULSE
- Supporting required communications interfaces
- Step-by-step transition into the world of PULSE
- Distributing the cost of system replacement



Specifications – PULSE VXI Front-end Driver Type 3099-D

Supported Functions

	VXI Modules							
	HP E1432A	HP E1433A	VT1432A	VT1432B	VT1433B	VT1434A	VT1435	VT1436
Frequency	See table of supported VXI sample frequencies							
Input								
Amplitude	✓	✓	✓	✓	✓	–	✓	✓
Dynamic Range	16-bit	16-bit	16-bit	16- or 24-bit	16-bit	–	16- or 24-bit	16- or 24-bit
Trigger	✓	✓	✓	✓	✓	–	✓	✓
Generator Output								
Amplitude	●	–	●	●	–	✓	●	●
Dynamic Range	16-bit	–	16-bit	16-bit	–	16-bit	16-bit	16-bit
Trigger (Burst)	●	–	●	●	–	✓	●	●
Tachometer	Channel tachometers are supported for input modules. Optional tachometer inputs (option AYF) are not supported							

✓ Indicates full support; – indicates no support; ● with arbitrary source, option 1D4

PREREQUISITES

- The following products are required:
- VXI Interface and Instrument Driver
 - PULSE software and licence

SUPPORTED INPUT MODULES

HP E1432A	16-channel 51.2 kHz 16-bit Digitizer plus DSP
VT1432A	16-Channel 51.2 kHz 16-bit Digitizer plus DSP
HP E1433A	8-channel 196 kHz 16-bit Digitizer plus DSP
VT1432B	16-channel 102.4 kHz 24-bit Digitizer plus DSP
VT1435	8-channel 102.4 kHz 24-bit Digitizer plus DSP with built-in IEPE conditioning
VT1436	16-channel 102.4 kHz 24-bit Digitizer plus DSP with built-in IEPE conditioning
VT1433B	8-channel 196 kHz Digitizer plus DSP

SUPPORTED OUTPUT MODULES*

VT1434A	4-channel 65 kHz Arbitrary Source
Option 1D4	Arbitrary Source

SUPPORTED COMMUNICATIONS INTERFACES

EX2500	Gigabit Ethernet Slot 0 Interface
E8491B	Agilent® FireWire®
MXI-2	National Instruments™
MXI-3	National Instruments

* Only with PULSE FFT & CPB Analysis Type 7700, PULSE FFT Analysis Type 7770 and PULSE CPB Analysis Type 7771

VXI SAMPLE FREQUENCIES SUPPORTED IN PULSE

PULSE Time Data Recorder	PULSE LabShop
65536 Hz	65536 Hz
32768 Hz	32768 Hz
16384 Hz	16384 Hz
8192 Hz	8192 Hz
4096 Hz	4096 Hz
2048 Hz	
1024 Hz	
512 Hz	
256 Hz	
128 Hz	

Ordering Information

Type 3099-D-F PULSE VXI Multiple Module Front-end Driver, Floating License

Type 3099-D-N PULSE VXI Multiple Module Front-end Driver, Node-locked License

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