

How to integrate a VX Instruments PXM7820 High Speed Multi-Measurement Device into a Pickering LXI Chassis



The VX Instruments PXM7820 can be integrated and used in the Pickering LXI Chassis.

The LXI Chassis needs at least the Firmware version 5.3.1 to support the PXM7820 device.

Following LXI Chassis are compatible with the PXM7820:

- 6-Slot LXI Modular Chassis 60-106-001
- 4-Slot LXI Modular Chassis 60-105-001
- 2-Slot LXI Modular Chassis 60-104-001

On your client PC, please install the latest driver package for the PXM78xx device. You can download our actual PXI driver package here: <http://pxidrivers.vxinstruments.com>.

To run the Soft-Front-Panel application, at least the NI-CVI2017-Runtime has to be installed on your system.

You can find a CVI2017-Runtime installer in the PXI driver package in the subdirectory „NI-CVI-RTE“.

As an alternative you can download NI-CVI-Runtime from the NI-Homepage. There is also a link provided during the PXM78xx installation procedure on the last page of the installation.

To test the connection to a PXM78xx device in a Pickering chassis over LAN/LXI please use the LXI specific version of the Soft-Front-Panel, e.g. „PXM78xx_SFP_LXI_w32.exe“.

To establish a connection to the chassis, you have to know its IP-address, which is visible in the front display of the chassis. When starting the Soft-Front-Panel, you will be asked to enter the IP-address, and also for using the C-API you will have to use this address to connect.

In order to develop your own applications, please use the LXI specific API Driver („LXI_PXM78xx.h“). You also have to include the „Picmlx“ library („Picmlx.h“) into your application.

Note that when working with the C-API, you have to include both the „LXI_PXM78xx“ library and the „Picmlx“ library into your application. Please use the „Picmlx“ library first to establish a connection to the Pickering chassis. Afterwards, you will get a „Session-Handle“, which can be used together with the „LXI_PXM78xx“ library to connect and use the specific PXM78xx instrument.



Picture 1: Pickering 4-Slot LXI Chassis

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PXI System Alliance

VX Instruments is one of nine Executive Members (total over 60 members) in the PXI System Alliance, the consortium, which defines and develops the PXI standard. Here we enjoy voting privileges and have direct access to the technical committee.



LXI Consortium

The LXI Consortium is promoting the development and adoption of the LXI Standard, an open, accessible standard identifying specifications and solutions relating to the test and measurement industry.



PCI-SIG

The PCI-SIG is a community, which develops and maintains the standardized approach to PCI data transfers.



ISO 9001:2015

VX Instruments GmbH is certified by International Certification Management GmbH since February 2003.

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