



Spectrometric solutions from components to systems



JETI TECHNISCHE INSTRUMENTE GMBH

Technical Note 16

Support for Linux and Mac OS X

Driver Support for Linux

Almost all newer Linux distributions with kernel 2.4.30 or higher have integrated driver support for FTDI-based devices such as specbos 1211-2 and spectraval 1501/1511 as well as for USB-CDC-based devices such as specbos 2501. No additional driver installation is necessary.

The integrated drivers provides a virtual serial COM port (VCP) which can be used to send commands to and receive measuring result from the device's firmware.

The VCP of specbos 1211-2 and spectraval 1501/1511 can be accessed via `/dev/ttyUSBX`, where X is a consecutive number (`/dev/ttyUSB0`, `/dev/ttyUSB1` and so on).

The VCP of specbos 2501 can be accessed via `/dev/ttyACMX`, where X is a consecutive number (`/dev/ttyACM0`, `/dev/ttyACM1` and so on).

Most Linux configurations have a dialout group for full and direct access to serial ports. By adding your user account to this group, you have the necessary authorisations for the devices to communicate via the serial interfaces.

Running JETI software with Linux

Currently there are no native software products or libraries from JETI working under Linux.

JETI offers software and libraries (JETI SDK) only for Windows operating systems (Windows 10/11). It's not possible to run the software natively under Linux.

Nevertheless, it's possible to use a virtual machine (e.g. VirtualBox) to additionally install Windows on it.

Inside the virtual machine, because a complete Windows is running, the normal Windows driver and software will work.

However, it should be possible to get the Windows software to work under Linux using Wine.

You must install the Wine and Winetricks packages under Linux. If both are installed, you must install the Visual C++ 2015 Runtime in Wine with 'winetricks vcrun2015' on the console and select Windows version 10 with 'winecfg'.

Then you can copy the Setup folder locally from the USB stick and start the installation with setup.exe. The error messages 'The "NI Microsoft Visual C++ 2015 Run-Time" installation has failed' can be ignored.



Spectrometric solutions from components to systems



JETI TECHNISCHE INSTRUMENTE GMBH

Driver Support for Mac OS X

Since 10.9 (Mavericks), OS X has included built-in driver support for FTDI-based devices like specbos 1211-2 and spectraval 1501/1511.

This driver provides a virtual serial COM port (VCP) which can be used to send commands to and receive measuring results from the device's firmware. The VCP can be accessed via `/dev/tty.usbserial-XXX`, where XXX is the USB serial number, not to be confused with the unit serial number.

To determine the USB serial number launch the System Profiler utility. Select USB under Hardware in the panel to the left and then select the appropriate device from the USB Device Tree (FT232R USB UART for specbos 1211-2, FT230X Basic UART for spectraval 1501/1511).

Currently there are no native software products or libraries from JETI working under Mac OS X.

Running JETI software with Mac OS X

JETI offers software and libraries (JETI SDK) only for Windows operating systems (Windows 8.1/10). It's not possible to run the software directly under Mac OS X.

Nevertheless, it's possible to use a virtual machine (e.g. Parallels Desktop) to additionally install Windows on it. Inside the virtual machine, because a complete Windows is running, the normal Windows driver and software will work.

Last modified: November 2024