

CAEN DRIVER FOR 5780 DIGITISER SERIES

Drivers module for 5780 digitiser are inside the folders "Digitiser_Usb" (usb driver) and "Digitiser_Optical_link" (for A3818 PCIe link module); in both cases the name of the generated driver is CAENUSBdrv.ko.

Every time that you upgrade the system you have to recompile the drivers and reload them into the kernel. Steps:

```
cd (folder of interest)
- make clean
- make
```

for kernel versions <= 3.19

log in as root (or use sudo or su -c "your command") and load the kernel typing:

```
- insmod CAENUSBdrv.ko
```

check for the presence of the module using:

```
- lsmod | grep CAEN
```

Newer kernel versions support only compressed xz modules. xz is a lossless data compression program and is normally installed together with the OS. In this case you have to compress the CAEN driver module by typing:

```
- xz CAENUSBdrv.ko
```

and the CAENUSBdrv.ko.xz module is generated

log in as root and load the module in the kernel:

```
- insmod CAENUSBdrv.ko.xz
```

again you can check for the status of the module using:

```
- lsmod | grep CAEN
```

Copy the CAENUSBdrv.ko.xz into: XRF_Programs/Program_Data_Files since every time that you run the XRF_Scanner the starting sequence of the program automatically checks if the CAENUSBdrv is loaded; if it's necessary the program loads the driver module.