

x751 Family DPP-PSD Firmware Compatibility

The following table summarizes the compatibility status of the x751 DPP-PSD firmware

x751 DPP-PSD Firmware Release	x751 with 8MB Flash Memory	x751 with 32MB Flash Memory
Up to 4.11_132.08 (no CFD)	✓	✓
From 4.11_132.32 (with CFD)	✗	✓

The x751 DPP-PSD firmware up to the 4.9_132.07 release is compatible with all the x751 family models without any restriction.

The x751 DPP-PSD firmware from the 4.11_132.32 release on implements the CFD discriminator and it is compatible only with the x751 models that are mounting the **32 MB Flash Memory**.

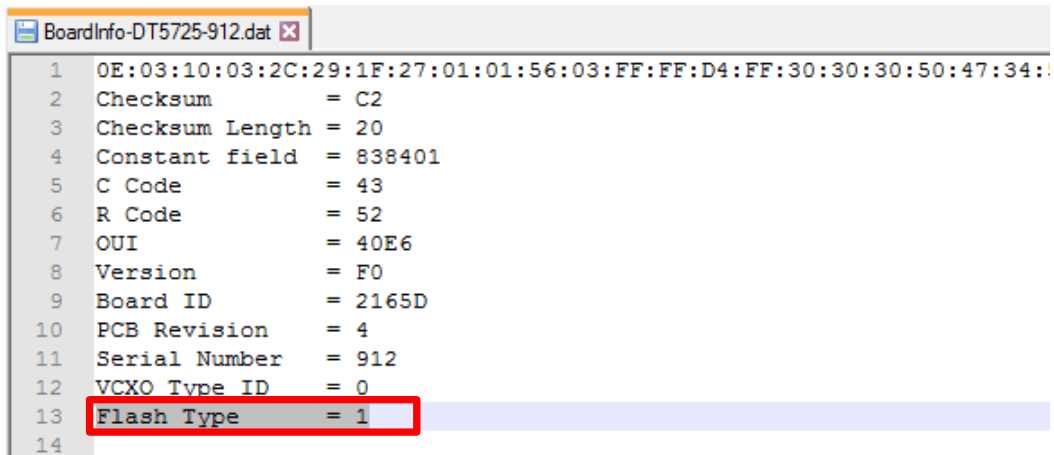
In order to check which Flash Memory is mounted on his/her own digitizer(s), several procedures are available for the user. They are described in the following.

If you want to upgrade your board please contact your sales representative or CAEN support at the following address: support.nuclear@caen.it

Procedure with CAENUpgrader (both Windows and Linux OS)

1. Download [CAENUpgrader](#) from CAEN website
2. Install *CAENUpgrader* on your computer (Java 8.40 or greater required)
3. Start *CAENUpgrader*
4. In the tab *Board Upgrader* select *Get Information*
5. Select the *Board Model* (V1751, N6751 or DT5751)
6. Select the folder path in which the file containing the board information will be stored
7. Select the *Connection Type* (USB or Optical)
8. Select the *Link Number* and the *Board Number* (both have to be left to 0 if only one board is connected)
9. Press the *Get Info* button
10. The information file will be named as *BoardInfo-DT5751-912* where DT5751 will be the actual model of your board and 912 will be the actual Serial Number of your board

11. The file content will be similar to the picture here below



```

BoardInfo-DT5725-912.dat
1 0E:03:10:03:2C:29:1F:27:01:01:56:03:FF:FF:D4:FF:30:30:30:50:47:34:
2 Checksum = C2
3 Checksum Length = 20
4 Constant field = 838401
5 C Code = 43
6 R Code = 52
7 OUI = 40E6
8 Version = F0
9 Board ID = 2165D
10 PCB Revision = 4
11 Serial Number = 912
12 VCXO Type ID = 0
13 Flash Type = 1
14
  
```

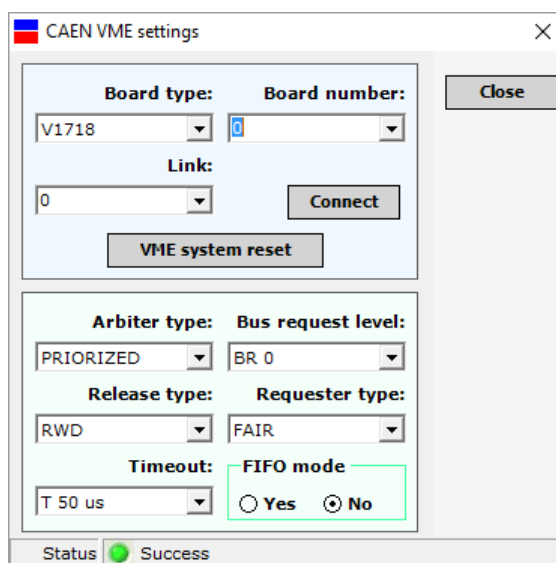
The Flash Type will be identified with 0 (8 MB) or 1 (32 MB)

Procedure with CAENVME Demo (Windows OS and Linux OS)

1. Download [CAENVME Library](#) from CAEN website. The *CAENVME Demo* is included in the library installation directory

In Windows OS

- a. Start *CAENVME Demo*
- b. Select *VME Settings*
- c. In the appeared pop-up:
 - i. if you are connected through the USB (with or without a CAEN USB Bridge V1718), select V1718 in the *Bridge Type*, the *Link* (0 if no other CAEN board is connected) and then press *Connect*;
 - ii. if you are connected through the Optical (with or without a CAEN Optical Bridge V2718), select V2718 in the *Bridge Type*, the *Link*, the *Board Number* (both have to be left to 0 if only one CAEN board is connected) and then press *Connect*;



- d. Press *Close*

In Linux OS

- a. Start *CAENVME Demo* with one of the following command lines:
 - i. if you are connected through the USB (with or without a CAEN USB Bridge V1718)

`./CAENVME Demo V1718 0 <VMEBaseAddress>`

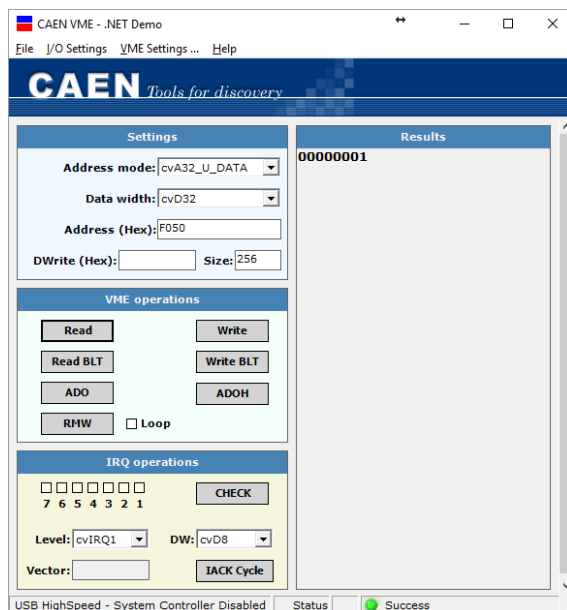
where the first 0 indicates the *Link Number* and has to be left to 0 if no other CAEN modules are USB connected and the *VMEBaseAddress* is not needed if the connection with the VME board is direct

- ii. if you are connected through the Optical Link (with or without a CAEN USB Bridge V2718)

`./CAENVME Demo V2718 0 0 <VMEBaseAddress>`

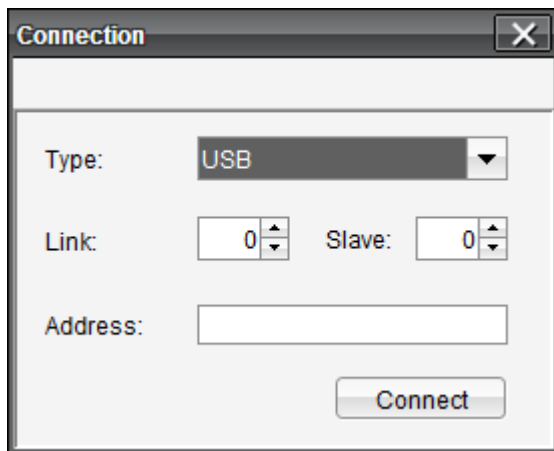
where the first 0 indicates the *Link Number* and has to be left to 0 if no further Optical Links are used, the second 0 is the *Board Number* and has to be left to 0 if no board is connected in daisy chain and the *VMEBaseAddress* is not needed if the connection with the VME board is direct

2. In the main window write **F050** in the Address (Hex) field in the *Settings* tab and press *Read*.
3. In the Results tab the read output will be shown:
 - a. **00000000 corresponds to an 8 MB Flash Memory**
 - b. **00000001 corresponds to a 32 MB Flash Memory**

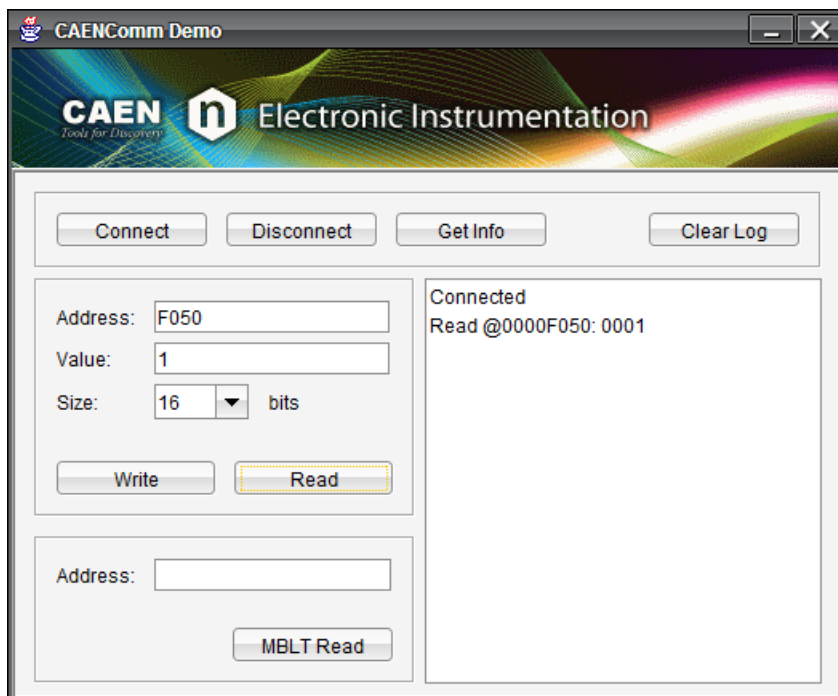


Procedure with CAENCommDemo (Windows OS only)

1. Download [CAENCommLibrary](#) from CAEN website. The *CAENCommDemo* is included in the library installation directory (Java and CAENVME lib required)
2. Start *CAENCommDemo*
3. Press *Connect*
4. In the appearing pop-up select the *Connection Type*, the *Link*, the *Slave* (both of them have to be left to 0 if no other CAEN equipment is connected), the Address number (only for VME boards), and press *Connect*



5. Write **F050** in the *Address* field
6. In the left panel the read results will be shown



- a. 0000 corresponds to an 8 MB Flash Memory
- b. 0001 corresponds to a 32 MB Flash Memory