

We are working with **UCD3138HSFB -029** evaluation board

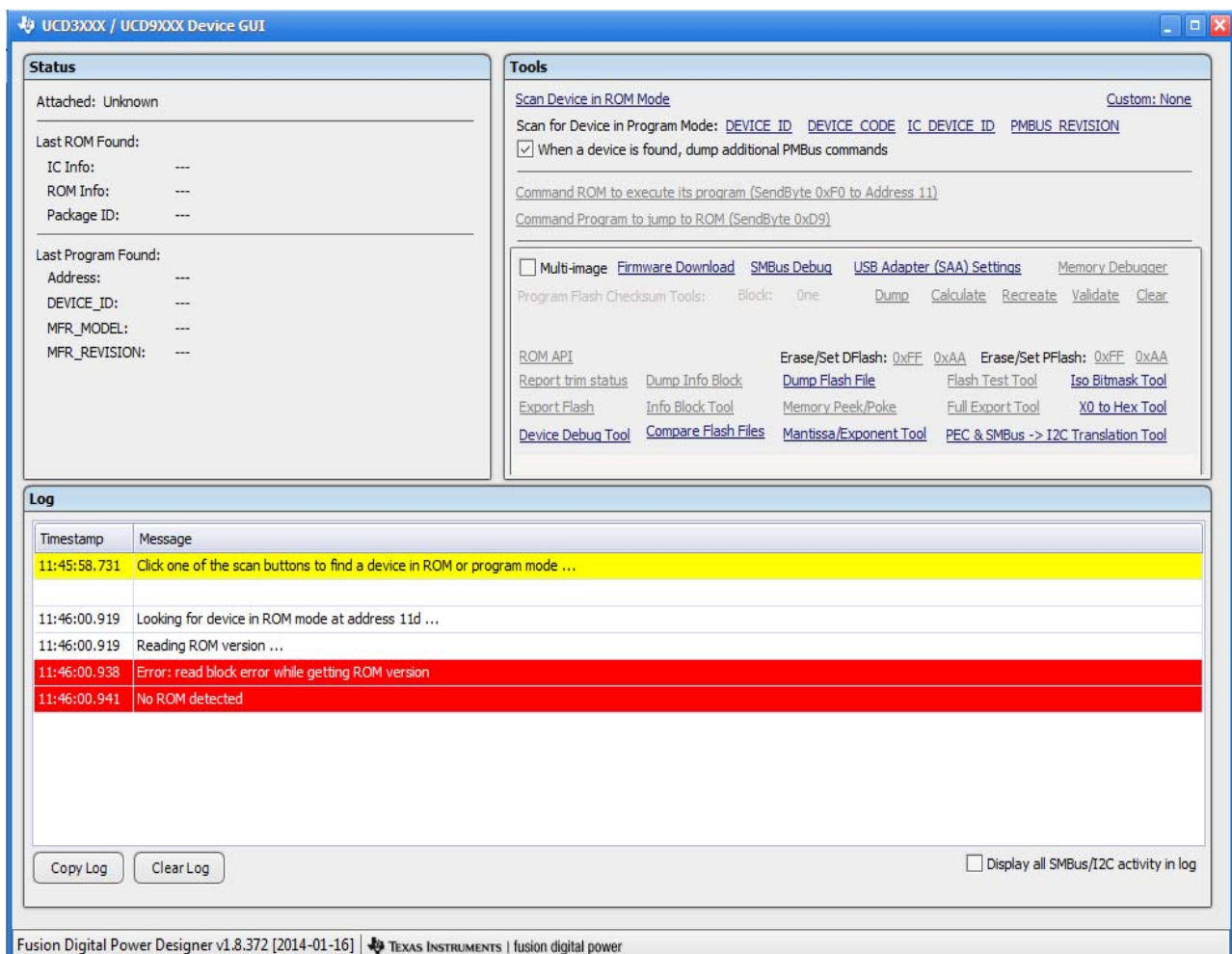
After having studied the board and reading the various associated documents, we first perform a simple custom application to understand the operation of the controller board.

However, the **IDE Code Composer Studio** does not offer us a direct access to the board so we used the tool **Fusion Digital Power Designer** to load our custom program. The checksum was good, our custom application appears to run but we lost access via the PMBus probe since the last download (impossible to debug etc ...)

However, in offline mode of **F.D.P.D** it was possible for us to scan the ROM (ROM version of the same to our target) but we don't have any information about *DEVICE_ID* , *MFR_Model* . etc ...

We search on **TI Forum** (e2e) where it was able to recover a file **.x0** board evaluation **UCD3138HSFB -029** that was downloaded in the target thereafter via **UCD3xxx & UCD9xxx Device GUI** .

Since we were able to reconnect with the card, the online mode is active again but we lost access to the ROM (ROM not detected) . The following figure shows you what you get when doing a [Scan Device in ROM Mode](#)



But when you click [Scan For Device in Program Mode](#) we get this:

The screenshot displays the 'UCD3XXX / UCD9XXX Device GUI' interface. The 'Status' panel on the left shows the following information:

- Attached: UCD3100ISO1 @ Address 88d
- Last ROM Found:
 - IC Info: ---
 - ROM Info: ---
 - Package ID: ---
- Last Program Found (highlighted with a red box and an arrow):
 - Address: 88d 0x58
 - DEVICE_ID: UCD3100ISO1|0.0.02.00001|130215
 - MFR_MODEL: UCD3138HSFBEVM-029
 - MFR_REVISION: A

The 'Tools' panel on the right includes the 'Scan Device in ROM Mode' section with the following options:

- Scan for Device in Program Mode: [DEVICE_ID](#) [DEVICE_CODE](#) [IC_DEVICE_ID](#) [PMBUS_REVISION](#)
- ☒ When a device is found, dump additional PMBus commands
- Command ROM to execute its program (SendByte 0xF0 to Address 11)
- Command Program to jump to ROM (SendByte 0xD9 to Address 88)

The 'Log' panel at the bottom shows a list of messages:

Timestamp	Message
11:49:40.469	Scanning addresses 1-11,13-127 for program mode devices
11:49:40.824	Found UCD3100ISO1 @ Address 88d
11:49:40.824	Address: 88d 0x58
11:49:40.836	DEVICE_ID: UCD3100ISO1 0.0.02.00001 130215 0x5543443331303049534F317C302E302E30303030317C31333032313500
11:49:40.896	SETUP_ID: VERSION1 HSFB001 0x56455253494F4E317C4853464230303100
11:49:40.906	MFR_MODEL: UCD3138HSFBEVM-029 0x554344333133384853464245564D2D30323900
11:49:40.909	MFR_REVISION: A 0x4100
11:49:40.911	MFR_SERIAL: 130215 0x31333032313500
11:49:40.913	MFR_ID: TI 0x544900
11:49:40.915	MFR_DATE: 130215 0x31333032313500
11:49:40.917	MFR_LOCATION: Dallas, TX 0x44616C6C61732C20545800

The bottom status bar indicates 'Fusion Digital Power Designer v1.8.372 [2014-01-16] | TEXAS INSTRUMENTS | fusion digital power'.

At this stage, it is blocked it does not have the right to appoint another Firmware or the possibility of recovering the Flash program.