

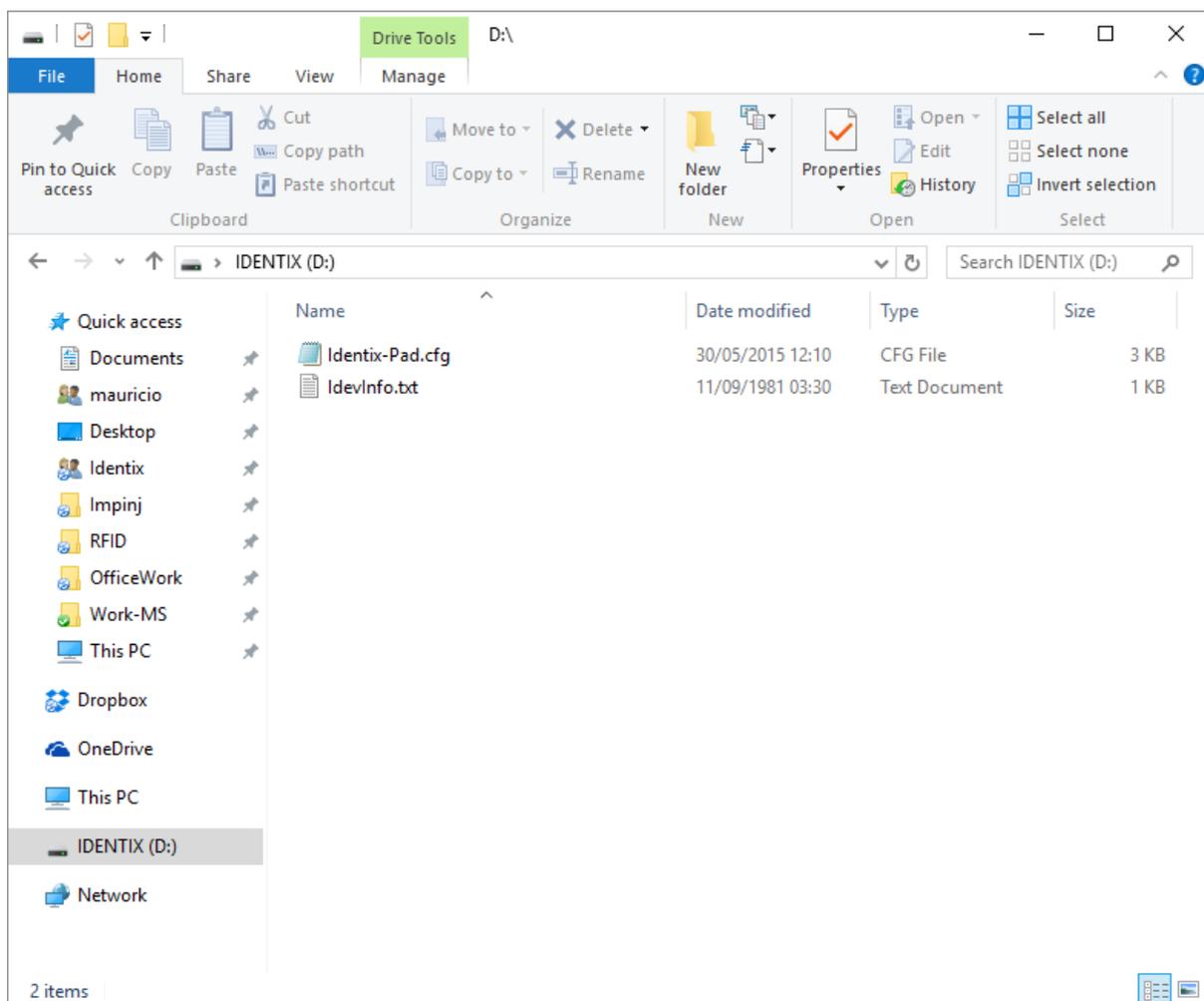
Controller Firmware Update Instructions for miniPad / rPad

This document contains information about how to upgrade the Controller Firmware on miniPad and rPad devices. Please follow carefully the instructions below in order to upgrade your device.

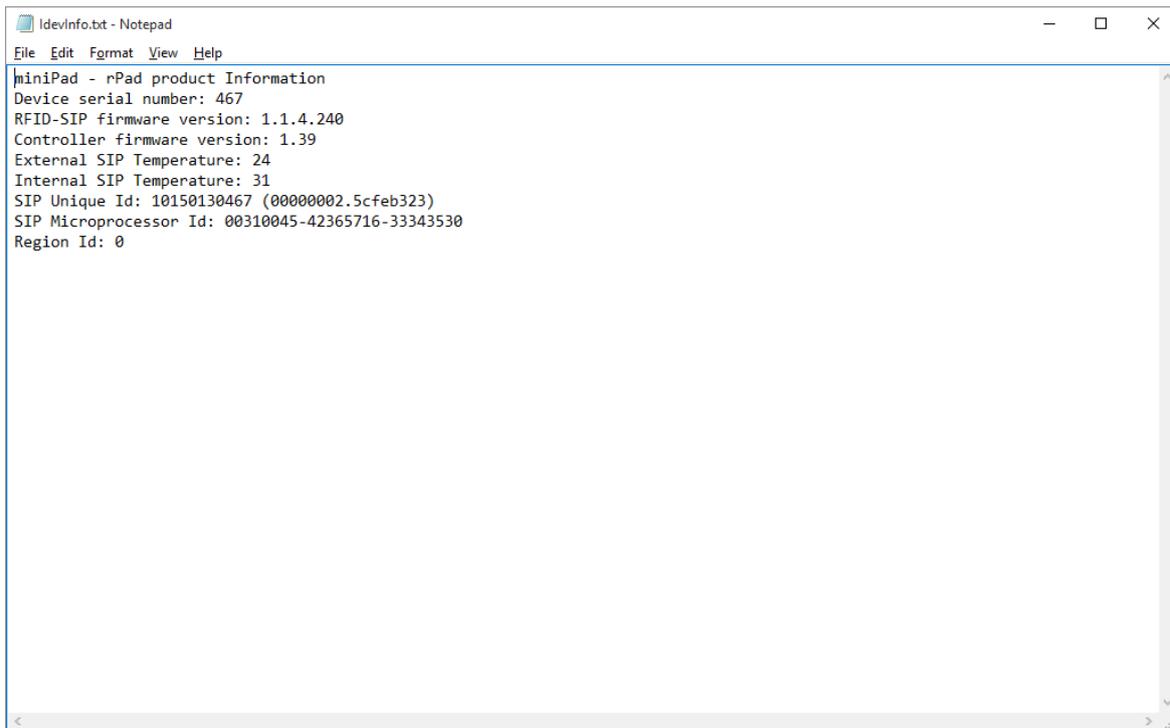
miniPad and rPad devices have 02 distinct firmwares with specific instructions for updating each one of them. The first one is the “RFID-SIP” firmware and the other one is the “Controller Firmware”.

This guide contains specific instructions to update the “Controller Firmware” only.

- 1) Open the device information file to identify the current firmware version. Connect your device to a Windows machine and open the “Identix” drive that is automatically mounted when you connect the device to the computer. The file that contains the device information is named “IdevInfo.txt”



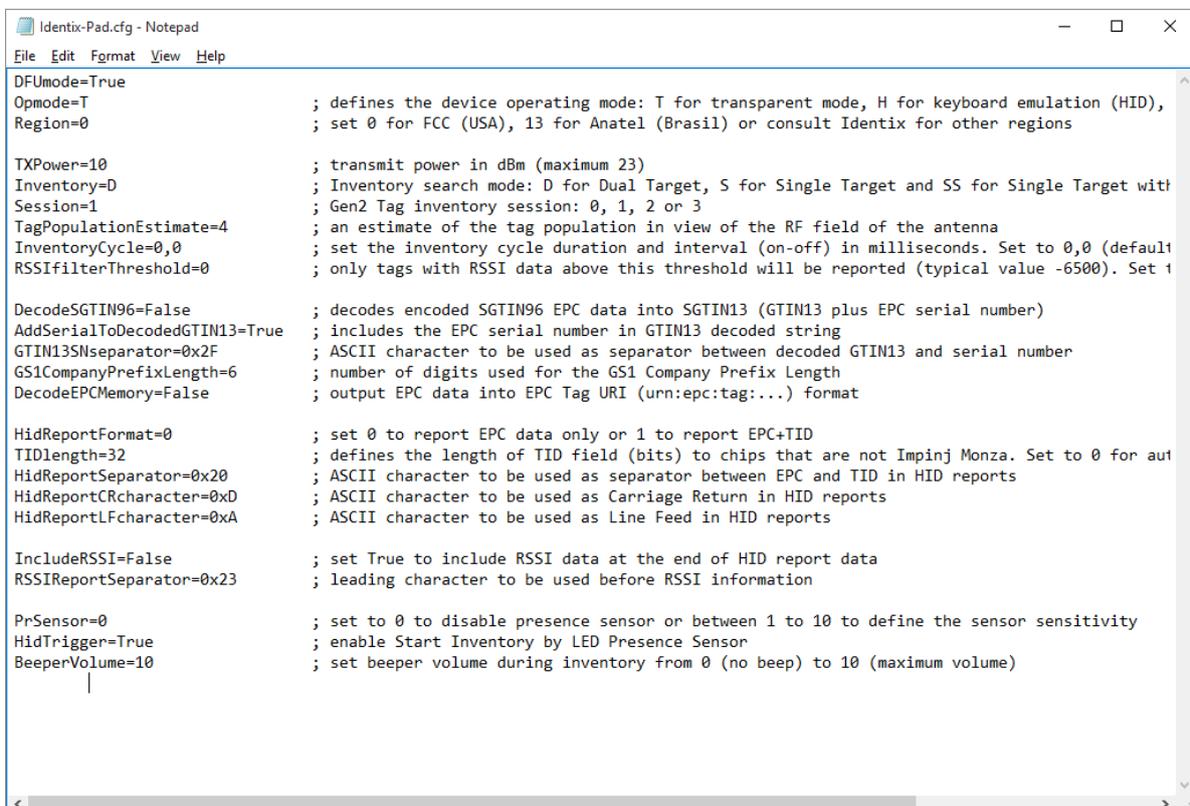
- 2) Identify the Controller Firmware version by opening the “IdevInfo.txt” file on Notepad.



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IdevInfo.txt - Notepad
File Edit Format View Help
miniPad - rPad product Information
Device serial number: 467
RFID-SIP firmware version: 1.1.4.240
Controller firmware version: 1.39
External SIP Temperature: 24
Internal SIP Temperature: 31
SIP Unique Id: 10150130467 (00000002.5cfeb323)
SIP Microprocessor Id: 00310045-42365716-33343530
Region Id: 0
  
```

- 3) After having the new firmware file on your hands, put your device in DFU (Device Firmware Update) mode. To do that, open the Identix-Pad.cfg file on Notepad and include the statement “DFUmode=True” on the first line of the file. The statement is case sensitive so be careful editing the configuration file.



```

Identix-Pad.cfg - Notepad
File Edit Format View Help
DFUmode=True
Opmode=T ; defines the device operating mode: T for transparent mode, H for keyboard emulation (HID),
Region=0 ; set 0 for FCC (USA), 13 for Anatel (Brasil) or consult Identix for other regions

TXPower=10 ; transmit power in dBm (maximum 23)
Inventory=D ; Inventory search mode: D for Dual Target, S for Single Target and SS for Single Target with
Session=1 ; Gen2 Tag inventory session: 0, 1, 2 or 3
TagPopulationEstimate=4 ; an estimate of the tag population in view of the RF field of the antenna
InventoryCycle=0,0 ; set the inventory cycle duration and interval (on-off) in milliseconds. Set to 0,0 (default)
RSSIFilterThreshold=0 ; only tags with RSSI data above this threshold will be reported (typical value -6500). Set 1

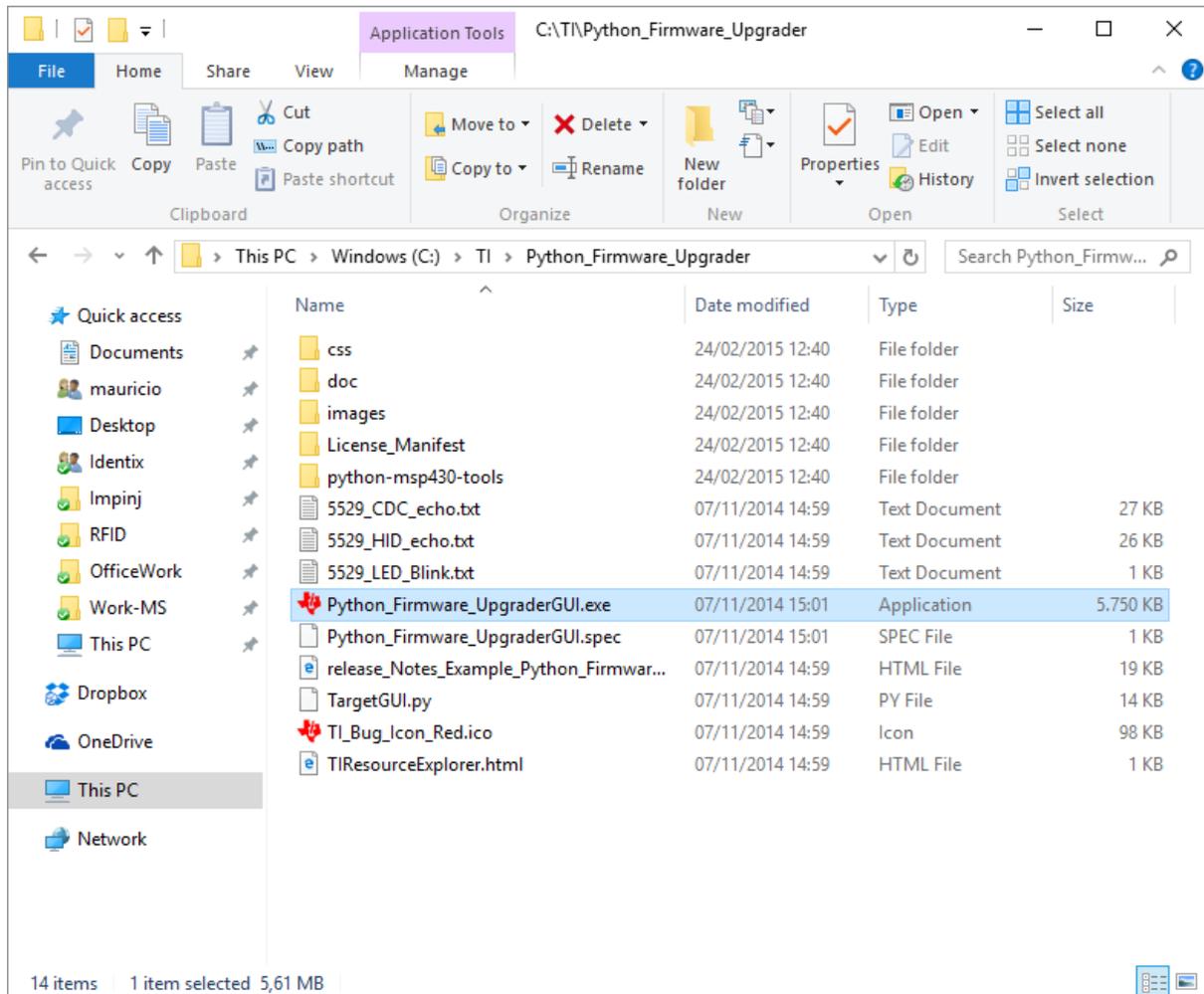
DecodeSGTIN96=False ; decodes encoded SGTIN96 EPC data into SGTIN13 (GTIN13 plus EPC serial number)
AddSerialToDecodedGTIN13=True ; includes the EPC serial number in GTIN13 decoded string
GTIN13SNseparator=0x2F ; ASCII character to be used as separator between decoded GTIN13 and serial number
GS1CompanyPrefixLength=6 ; number of digits used for the GS1 Company Prefix Length
DecodeEPCMemory=False ; output EPC data into EPC Tag URI (urn:epc:tag:...) format

HidReportFormat=0 ; set 0 to report EPC data only or 1 to report EPC+TID
TIDlength=32 ; defines the length of TID field (bits) to chips that are not Impinj Monza. Set to 0 for aut
HidReportSeparator=0x20 ; ASCII character to be used as separator between EPC and TID in HID reports
HidReportCRcharacter=0xD ; ASCII character to be used as Carriage Return in HID reports
HidReportLFcharacter=0xA ; ASCII character to be used as Line Feed in HID reports

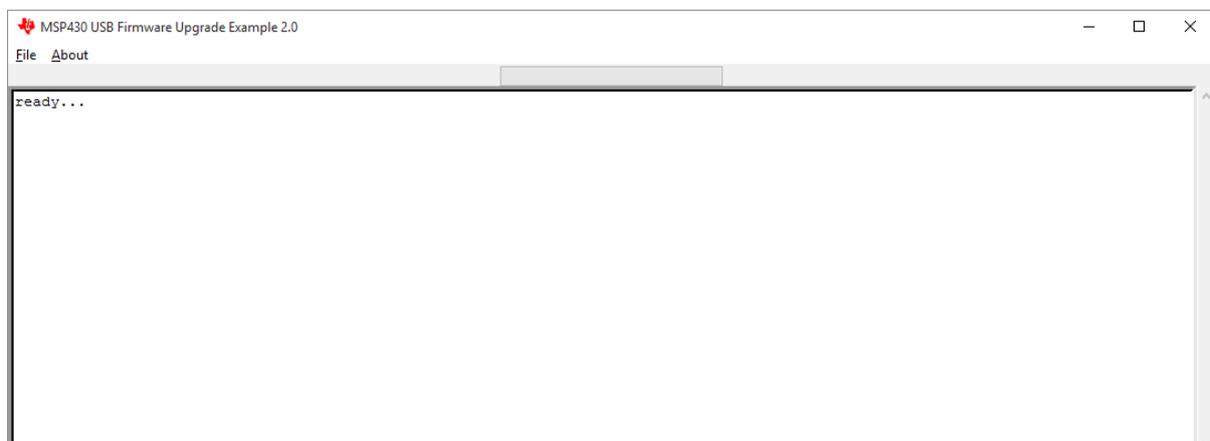
IncludeRSSI=False ; set True to include RSSI data at the end of HID report data
RSSIReportSeparator=0x23 ; leading character to be used before RSSI information

PrSensor=0 ; set to 0 to disable presence sensor or between 1 to 10 to define the sensor sensitivity
HidTrigger=True ; enable Start Inventory by LED Presence Sensor
BeeperVolume=10 ; set beeper volume during inventory from 0 (no beep) to 10 (maximum volume)
  
```

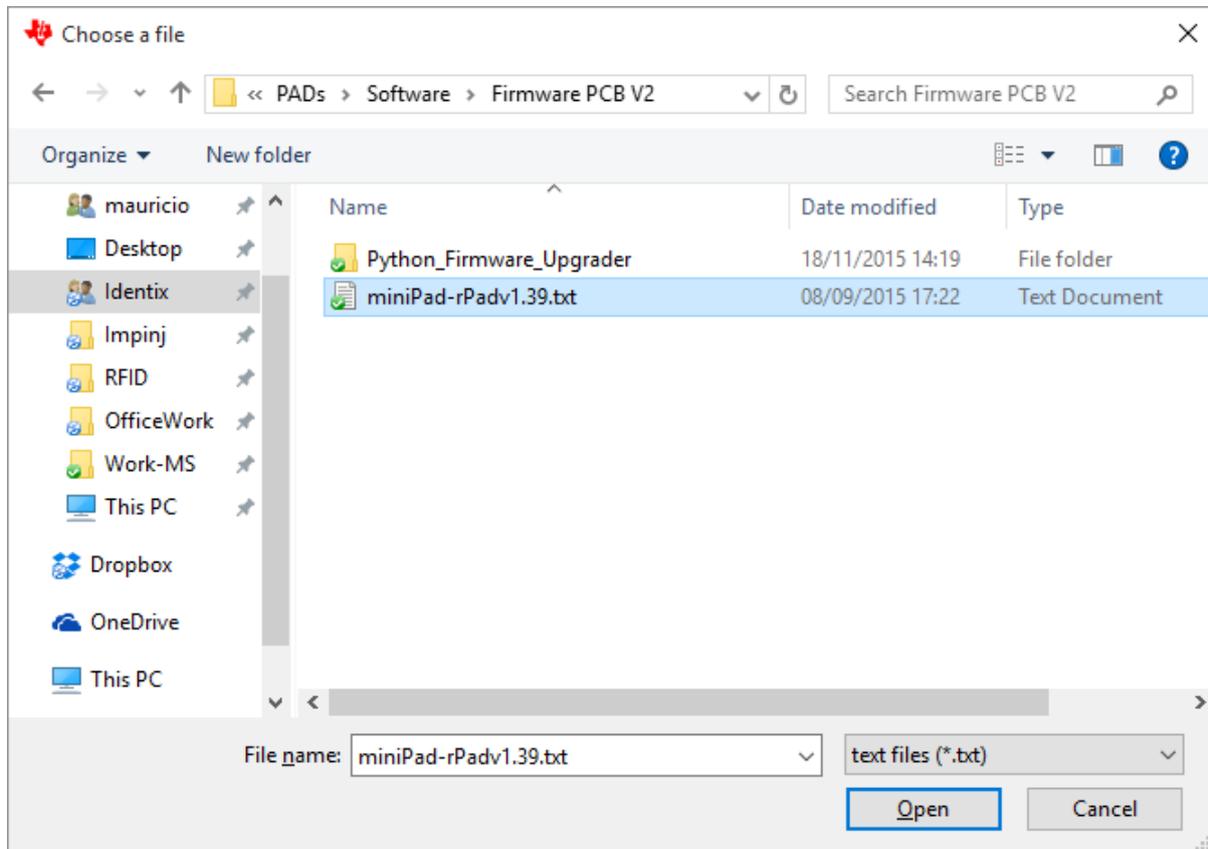
- 4) After saving the configuration file on Notepad, the device will reboot and enter in “DFU mode”. The “Identix” drive will dismount and you will no longer have access to the configuration file.
- 5) Locate the “Python_Firmware Upgrade”. Identix provides this utility on a zipped file. Create a folder and unzip all content of the zip package inside it. Execute the file “Python_Firmware_UpgradeGUI.exe” by double clicking over it.



Once the program is executed, a screen like the one below must be displayed. The program will automatically recognize the miniPad / rPad device and a “ready...” Message will be displayed.



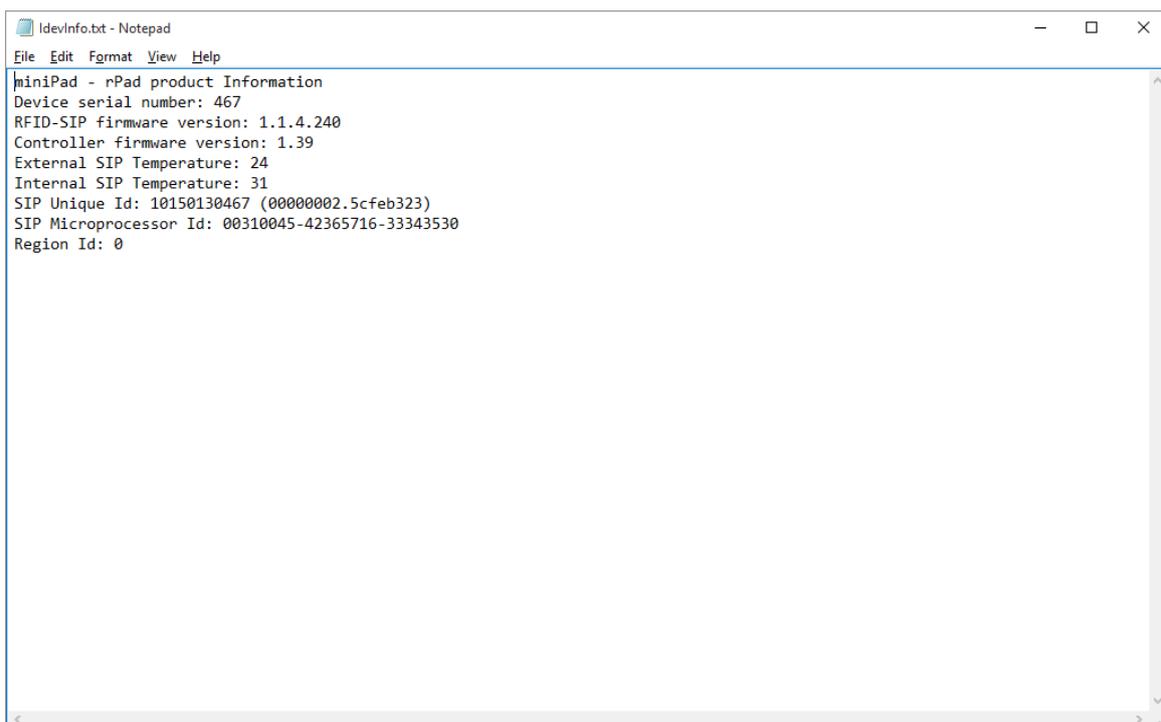
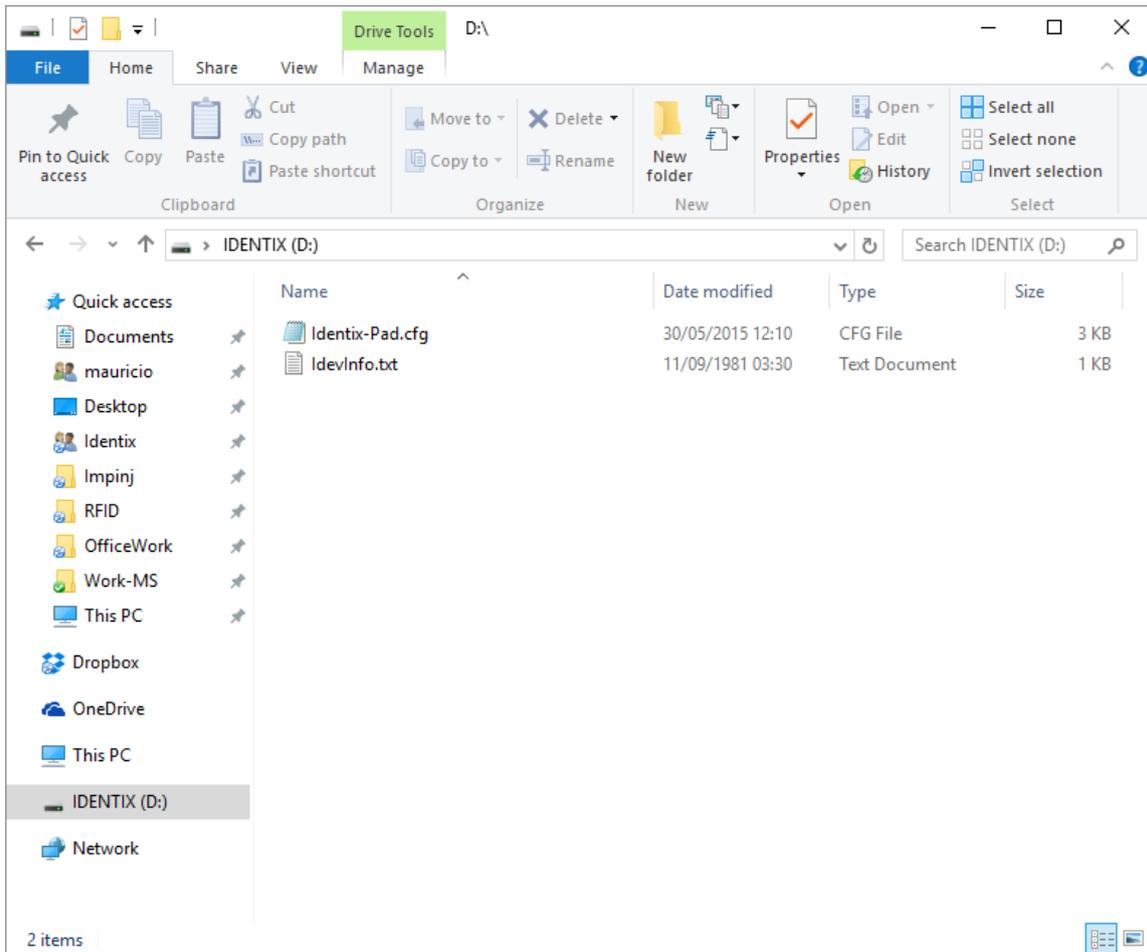
- 6) Select the new firmware file by the the menu “File / Open User Firmware”. In the example blow the firmware file is “miniPad-rPad1.39.txt”



- 7) When selecting the file, the firmware update process will start automatically. Once finished the “Programming: OK” message will appear. DO NOT INTERRUPT THIS PROCESS, OTHERWISE YOUR DEVICE MAY BECOME PERMANENTLY DAMAGED.



- 8) Disconnect and reconnect the miniPad – rPad device to the computer. Open the device information file to verify if everything went ok.



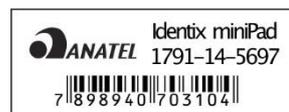
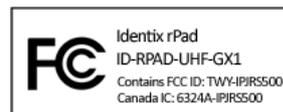
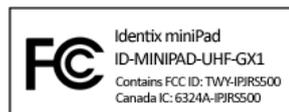
Contacts

Sales sales@idntx.com

Support <https://idntx.zendesk.com>

FCC Statement: §15.105 Digital Devices Statement. Class B Digital Devices.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: (1) reorient or relocate the receiving antenna, (2) increase the separation between the equipment and receiver, (3) connect the equipment into an outlet on a circuit different from that to which the receiver is connected or (4) consult the dealer or an experienced radio/TV technician for help.



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