

fumis



Fumis **WiRCU module**

User guide for updating and connecting

Version 003

September, 2016

Legal notices

Fumis products are intended for controlling the process of biomass combustion in wood biomass heating systems (pellets, cutter chips, firewood) and wood-like biomass (pallets and briquettes from another biomass, shells, vegetable grains and the like). Functioning of this devices can, in certain circumstances, among other, produce next risks: a) When the device is not used appropriately, an excess amount of explosive mixture of wood gas and air can be produced in the device which may explode; b) In case of misuse and excessive overheating of the device the pressure inside the boiler can become too high and the boiler can explode; c) During the combustion carbon monoxide is being produced inside the device. In case of inappropriate exhaust, carbon monoxide can threaten health and life of people and animals.

Abovementioned explosions are powerful enough to produce damage to combustion device, nearby devices and also to the building where the device is installed. People nearby can be injured.

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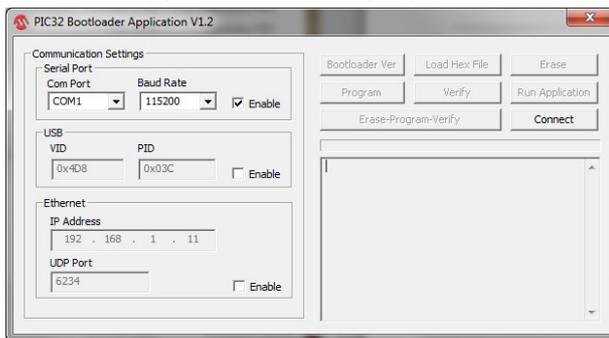
Sales: sales@fumis.si
Support: support@fumis.si

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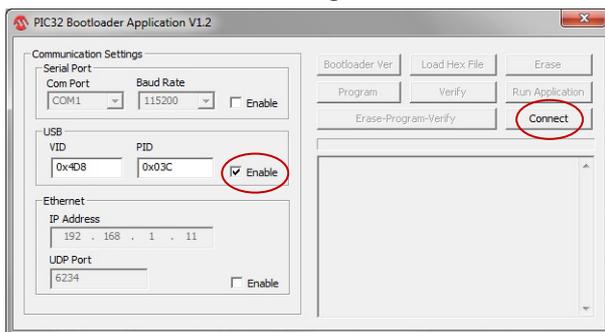
- 1.) Procedure for updating WiRCU module to newer version
- 2.) Procedure for setting up WiFi connection with USB cable via computer

Procedure for updating WiRCU module to newer version

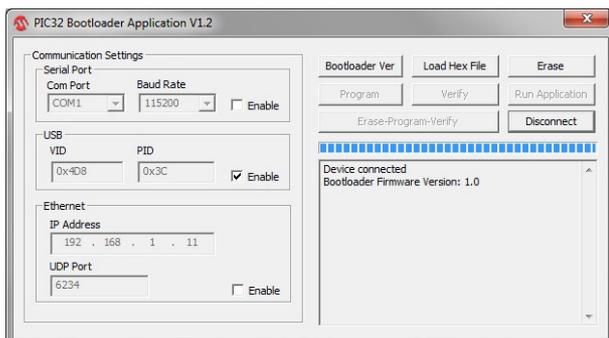
- 1.) Requirements:
 - a. Computer
 - b. Micro USB cable
 - c. WiRCU module
 - d. PIC32UBL.exe program
- 2.) Download PIC32UBL.exe program from the website.
- 3.) Take the WiRCU module and plug into it the USB cable (RJ connector should not be connected).
- 4.) Hold the button SETUP WIFI RESET and while holding, connect the other part of the USB cable to the computer. Release the button. If the connection is correctly established, only the STATUS light on the WiRCU module is blinking slowly.
- 5.) Run the PIC32UBL.exe program. Just run it, there's no need for an installation.
- 6.) The following picture shows the program



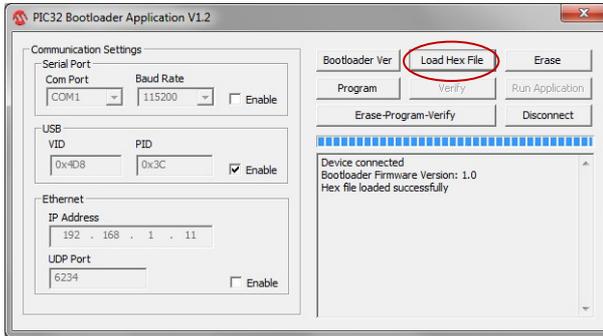
- 7.) Under Communication settings find USB, click Enable and then click Connect.



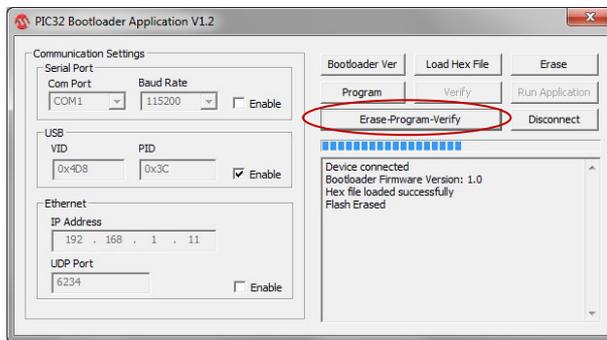
- 8.) After clicking Connect you'll get the following screen.



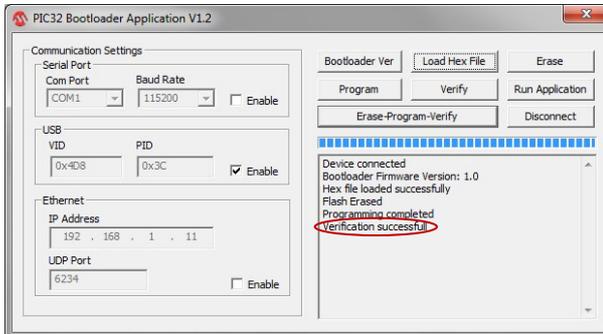
- 9.) Click Load Hex File, find the location of the update file on the computer and double click on it. You should get the same screen as on the picture below.



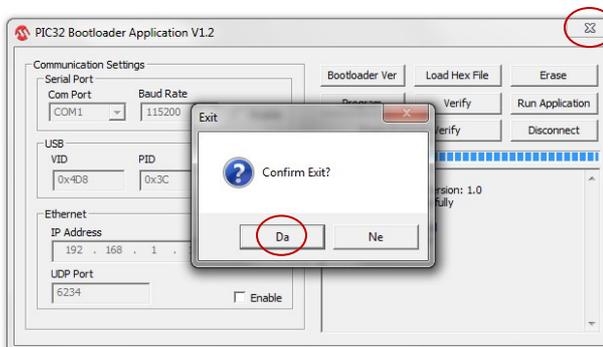
- 10.) Click on Erase-Program-Verify. When the process starts, you should see the picture below.



- 11.) The program notifies you when the updating's over.



- 12.) Just click on the Exit mark, confirm and disconnect the WiRCU module from the computer.

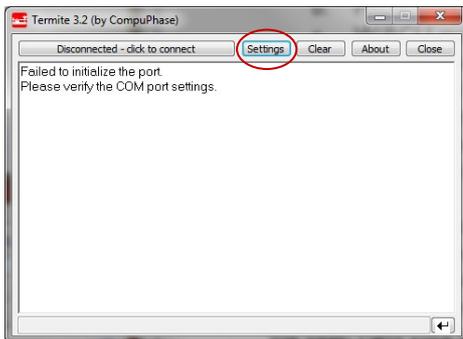


Procedure for setting up WiFi connection with USB cable via PC

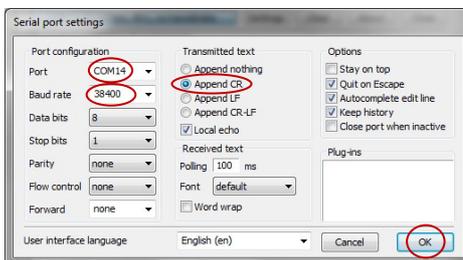
1.) Requirements:

- a. Computer
- b. Micro USB cable
- c. WiRCU module
- d. Termite.exe program
- e. mchpcdc.inf
- f. Remark: This procedure is only available if the software on the WiRCU module is version 1.3.0 or newer. If it's not or you're not sure, please see Procedure for updating WiRCU module to newer version.

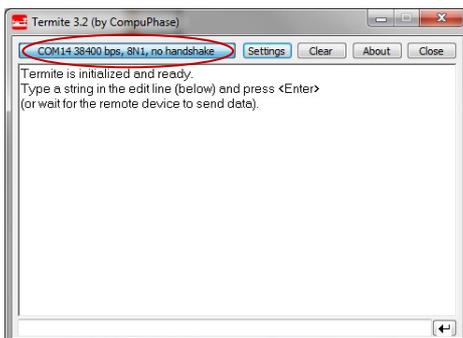
- 2.) Download Termite.exe program and mchpcdc.inf from the website.
- 3.) Take the WiRCU module and plug into it the USB cable (RJ connector should not be connected) and the other part of the cable into the computer. If the connection is correctly established, only the WiFi light on the WiRCU module is blinking slowly.
- 4.) The operating system should automatically recognize and download all available drivers. If this is not the case, right click on the mchpcdc.inf file and manually install it.
- 5.) Run the Termite.exe program. Just run it, there's no need for an installation. Click Settings.



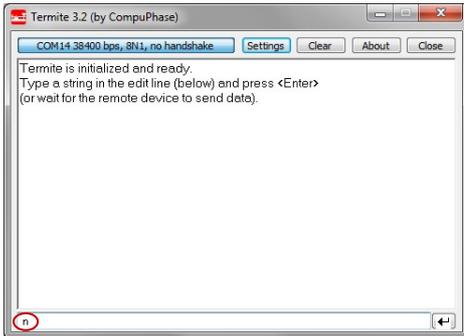
- 6.) Choose the assigned COM port (COM14 in our example), change Baud rate to 38400 and set Append CR. Click OK and exit the program.



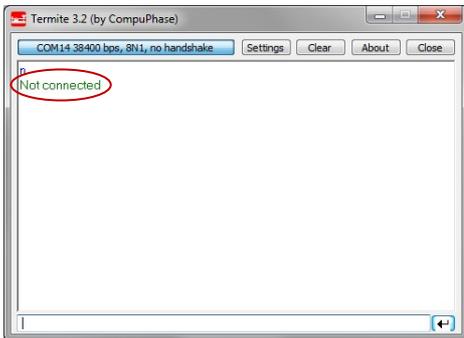
- 7.) Run again the program and now you should see the following picture.



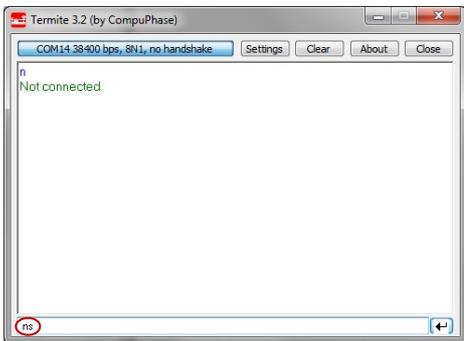
8.) Insert **n** for network status and hit Enter on the keyboard.



9.) If the WiRCU module is not connected yet to any network, you should get something like on the picture below (not connected).



10.) Insert **ns** for network search and hit Enter on the keyboard.

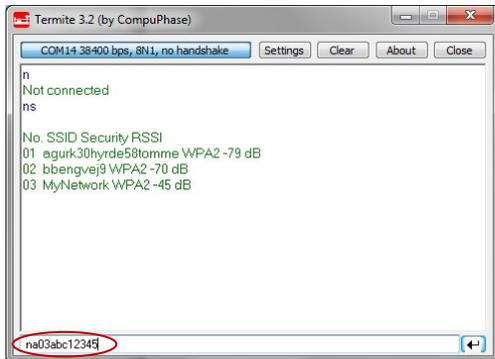


11.) If this is what you get, then you're doing well. Remark: if there are no networks found, but you're sure there's at least one, just redo the **ns**.



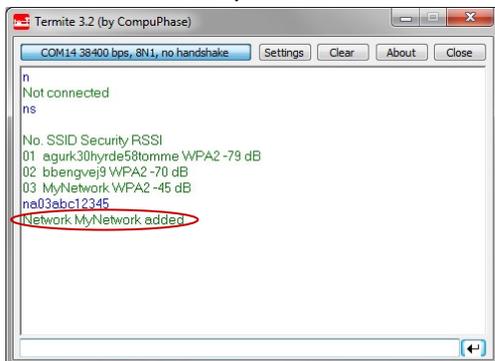
12.) Pick up the network you would like to use for WiRCU module and very carefully follow our example. Remark: Wireless networks with WEP encryption are not supported because of too low security standards.

- 13.) Insert **na** that stands for network add and continue (without backspace) na"number of selected network""network password". To confirm, hit Enter on the keyboard. Example: na03abc12345



```
Termite 3.2 (by CompuPhase)
COM14 38400 bps, 8N1, no handshake
n
Not connected
ns
No. SSID Security RSSI
01 agurk30hyrde58tomme WPA2 -79 dB
02 bbengvej9 WPA2 -70 dB
03 MyNetwork WPA2 -45 dB
na03abc12345
```

- 14.) After some seconds you should see the same as in the following picture.



```
Termite 3.2 (by CompuPhase)
COM14 38400 bps, 8N1, no handshake
n
Not connected
ns
No. SSID Security RSSI
01 agurk30hyrde58tomme WPA2 -79 dB
02 bbengvej9 WPA2 -70 dB
03 MyNetwork WPA2 -45 dB
na03abc12345
Network MyNetwork added
```

- 15.) Close the program and disconnect the WiRCU module from the computer.
16.) Connect the WiRCU module to the power supply. If everything was successfully, the WiFi LED light should be permanently ON. The STATUS LED light should be blinking slowly or permanently ON.
17.) Connect the RJ cable to the WiRCU module. After some seconds, all LED light should be permanently ON. Remark: WiFi LED light blinks from time to time. This is because of data transmission from the app to the stove.



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