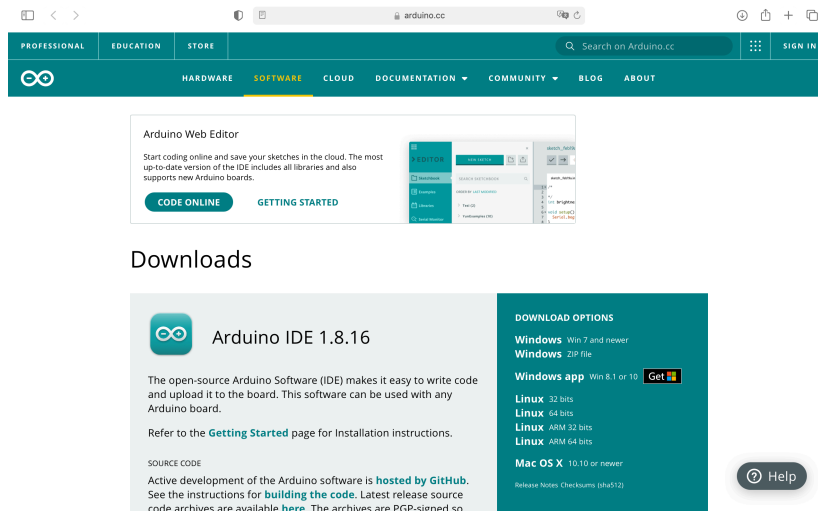
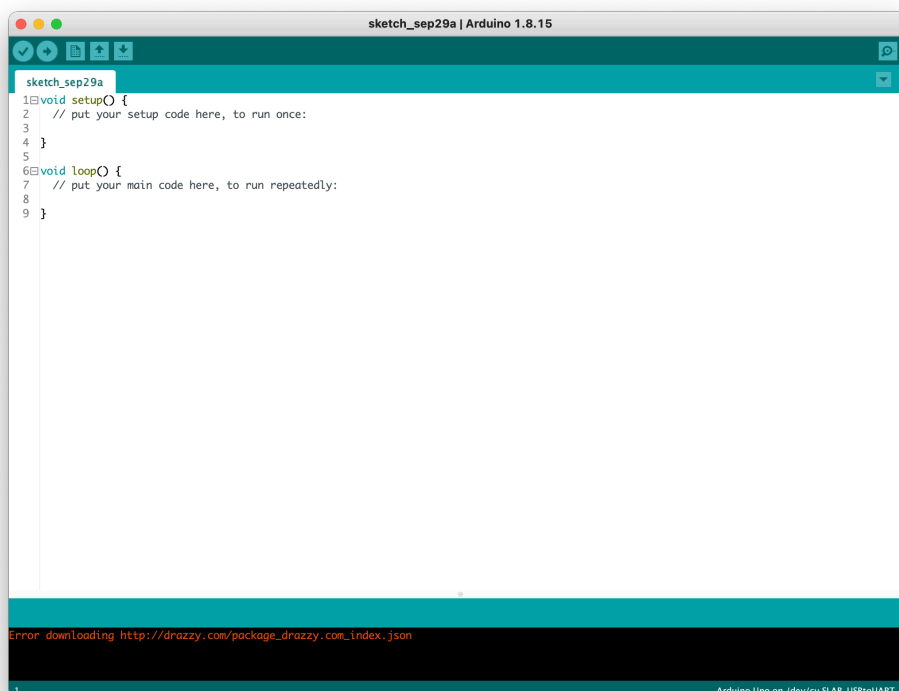


How to upgrade Z-Uno to the latest version and upload certification sketch.

1. Download Arduino IDE from <https://www.arduino.cc/en/Main/Software>

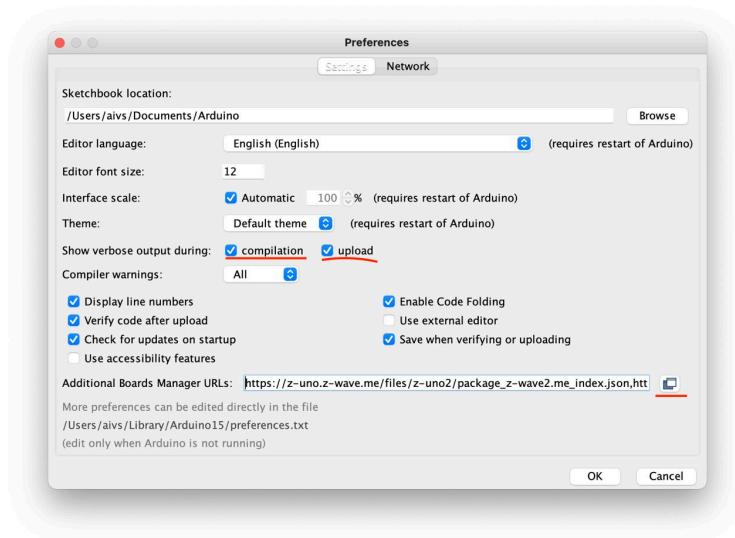


2. Install Arduino IDE
3. Launch Arduino IDE



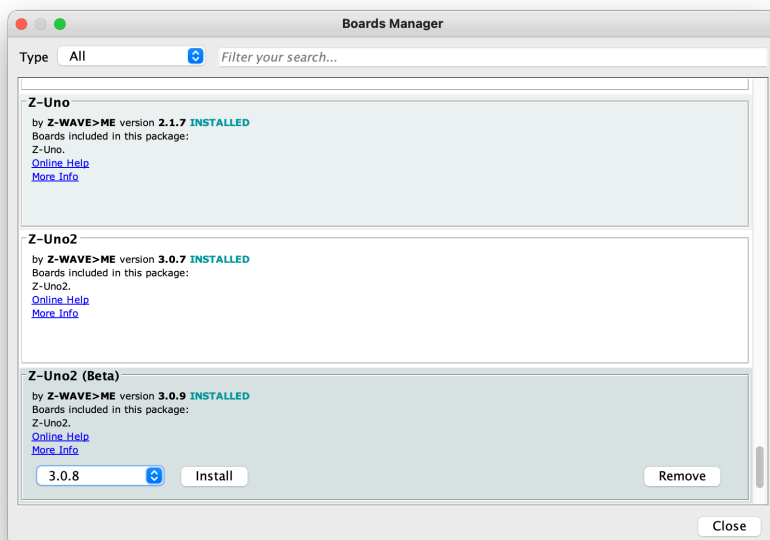
4. Open Arduino Preferences. Select «Show verbose output during compilation & upload». In the field "Additional Boards Manager URLs" put:

https://z-uno.z-wave.me/files/z-uno2/package_z-wave2.me_beta_index.json



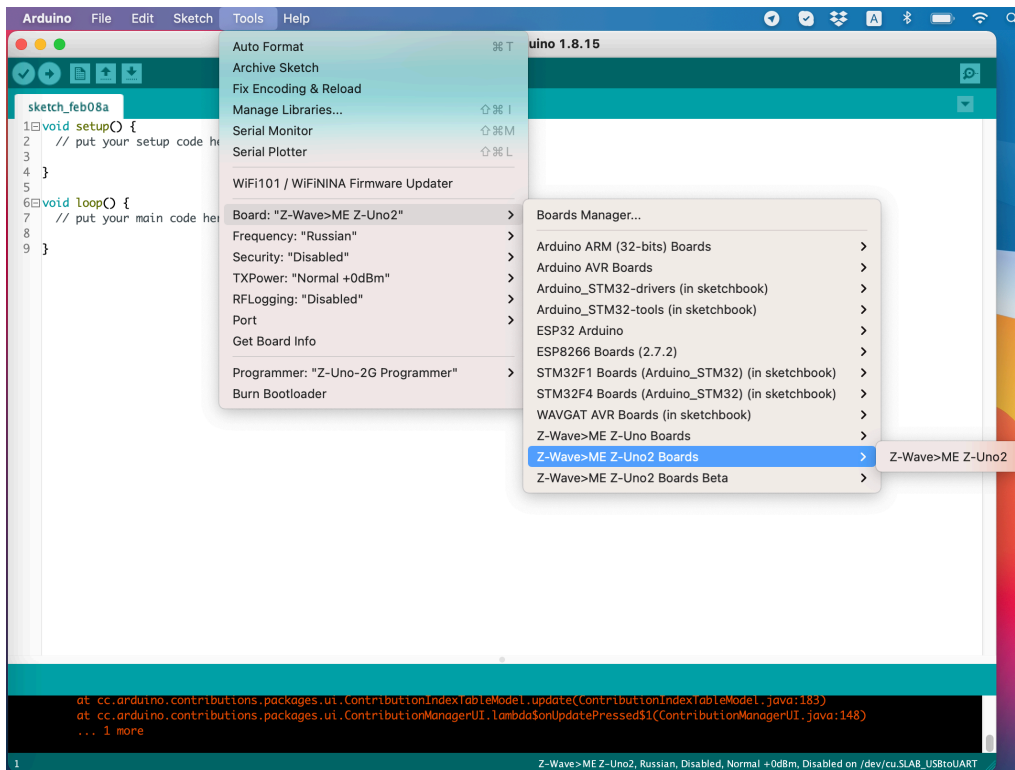
5. Go to **Tools** → **Board** → **Boards manager**.

Scroll down, you should see a package "Z-Uno2 (Beta) by Z-WAVE>ME". Please Install **version 3.0.9**.

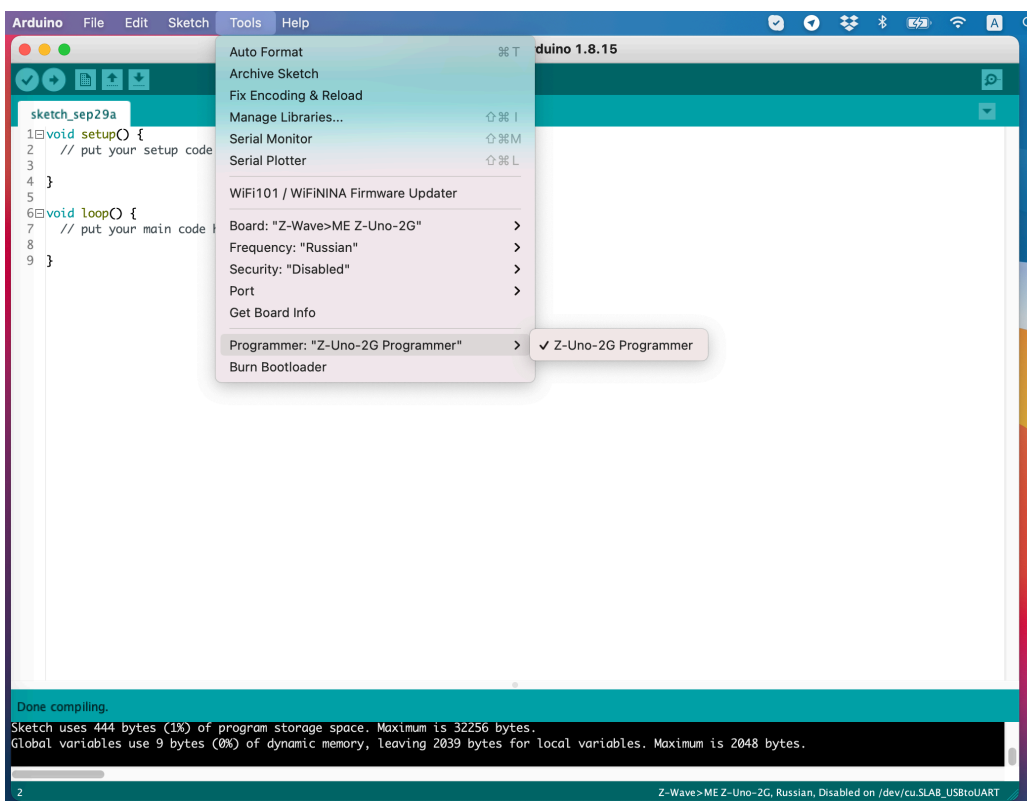


6. Restart Arduino IDE

7. Now select "Z-Wave>ME Z-Uno2 Beta" in Tools → Board



8. And "Z-Uno2 Programmer" in Tools → Programmer section.

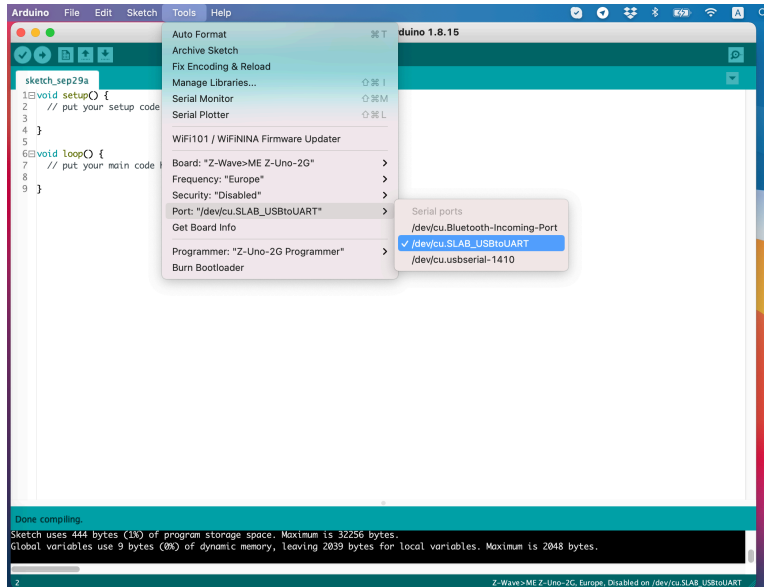


9. Windows users (prior to Windows 10) should install Z-Uno Driver. See [the driver installation instructions](#).

macOS and Linux users don't need to worry, the driver is already installed in the system.

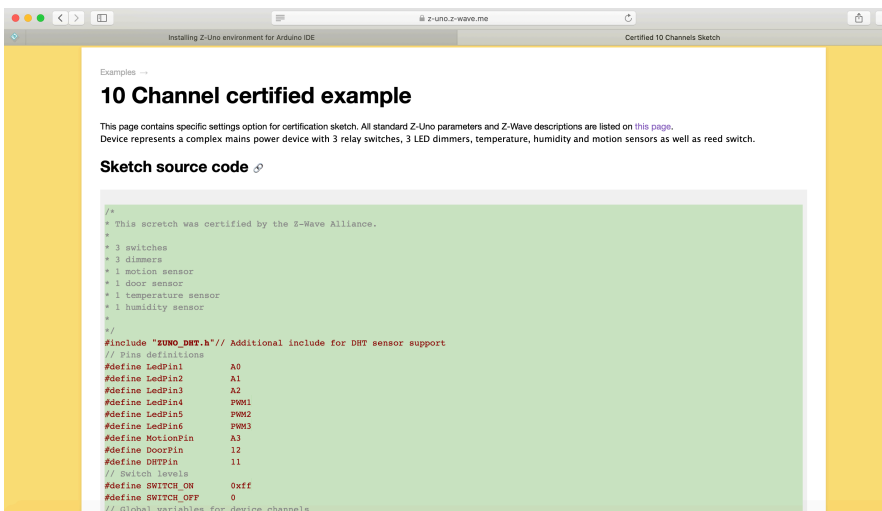
10. Connect Z-Uno to your PC by means of microUSB-cable.

11. Now you should see «/dev/cu.SLAB_USBtoUART" (for MacOs/Linux) or «COMxx» (for Windows) in **Tools** → **Port** section. Select it.

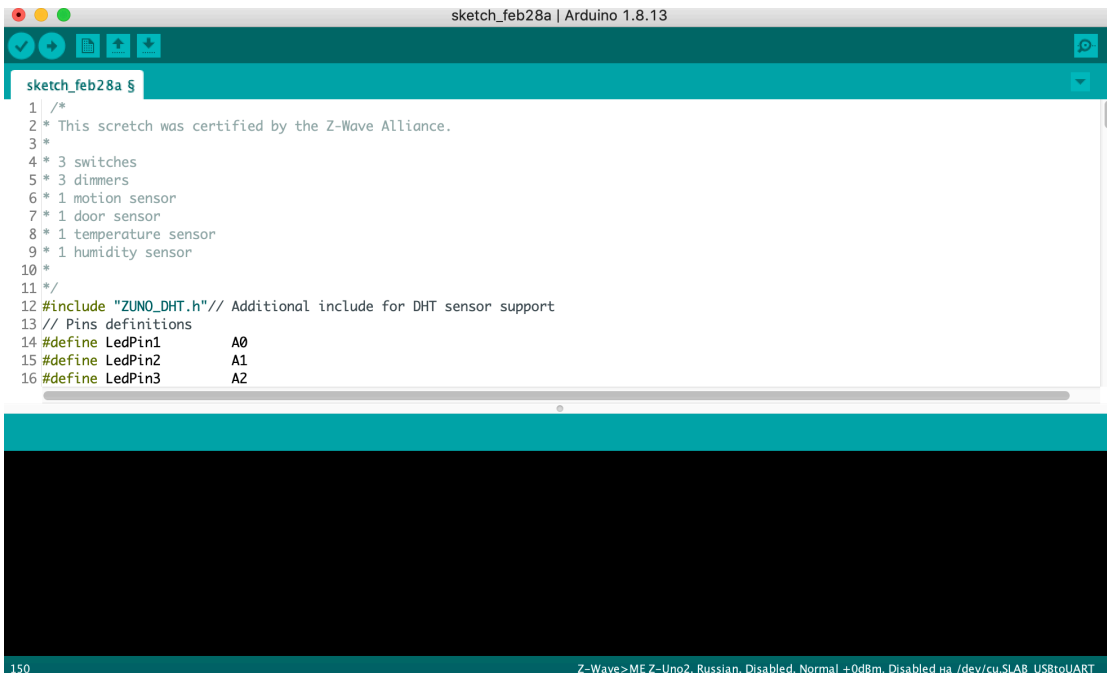


12. Press **Tools** → **Burn Bootloader**. This will update your Z-Uno2 software to the latest stable version. This can take some time. You can see it's working if Service LED blinks.

13. Open certification sketch page (<https://z-uno.z-wave.me/examples/Certified10Ch/#Source>) and copy its text to the clipboard



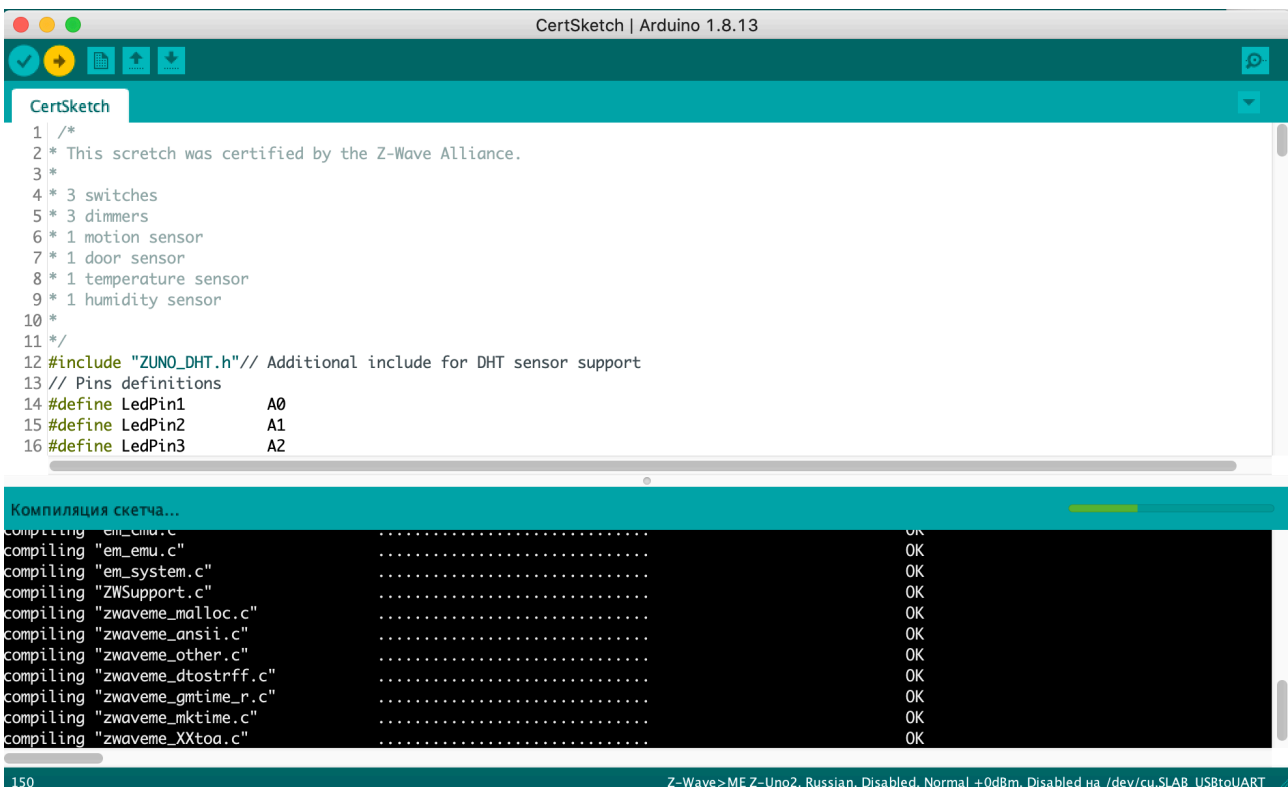
14. In Arduino IDE select **File** → **New** and past text to the opened window.



```
sketch_feb28a | Arduino 1.8.13
sketch_feb28a §
1 /*
2 * This scretch was certified by the Z-Wave Alliance.
3 *
4 * 3 switches
5 * 3 dimmers
6 * 1 motion sensor
7 * 1 door sensor
8 * 1 temperature sensor
9 * 1 humidity sensor
10 *
11 */
12 #include "ZUNO_DHT.h"// Additional include for DHT sensor support
13 // Pins definitions
14 #define LedPin1      A0
15 #define LedPin2      A1
16 #define LedPin3      A2
```

150 Z-Wave>MEZ-Uno2, Russian, Disabled, Normal +0dBm, Disabled на /dev/cu.SLAB_USBtoUART

15. Press «Upload» (→) button in the toolbox. Save the sketch to your PC when IDE asks you about it.



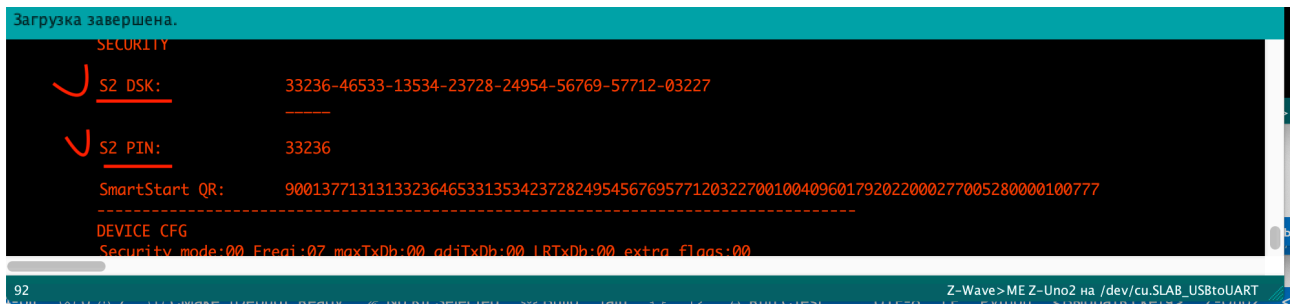
```
CertSketch | Arduino 1.8.13
CertSketch
1 /*
2 * This scretch was certified by the Z-Wave Alliance.
3 *
4 * 3 switches
5 * 3 dimmers
6 * 1 motion sensor
7 * 1 door sensor
8 * 1 temperature sensor
9 * 1 humidity sensor
10 *
11 */
12 #include "ZUNO_DHT.h"// Additional include for DHT sensor support
13 // Pins definitions
14 #define LedPin1      A0
15 #define LedPin2      A1
16 #define LedPin3      A2
```

Компиляция скетча...

| | |
|--------------------------------|----|
| compiling "em_emu.c" | OK |
| compiling "em_emu.c" | OK |
| compiling "em_system.c" | OK |
| compiling "ZWSupport.c" | OK |
| compiling "zwaveme_malloc.c" | OK |
| compiling "zwaveme_ansi.c" | OK |
| compiling "zwaveme_other.c" | OK |
| compiling "zwaveme_dtostrff.c" | OK |
| compiling "zwaveme_gmtime_r.c" | OK |
| compiling "zwaveme_mktime.c" | OK |
| compiling "zwaveme_XXtoa.c" | OK |

150 Z-Wave>MEZ-Uno2, Russian, Disabled, Normal +0dBm, Disabled на /dev/cu.SLAB_USBtoUART

16. During upload process IDE will show you DSK and PIN of your Z-Uno board in console (Don't forget to select «verbose mode» in 4.).



```
Загрузка завершена.  
SECURITY  
✓ S2 DSK: 33236-46533-13534-23728-24954-56769-57712-03227  
✓ S2 PIN: 33236  
SmartStart QR: 900137713131332364653313534237282495456769577120322700100409601792022000277005280000100777  
-----  
DEVICE CFG  
Security_mode:00 Freq:07 maxTxDb:00 rdiTxDb:00 LRTxDb:00 extra_flags:00  
92 Z-Wave>ME Z-Uno2 на /dev/cu.SLAB_USBtoUART
```

17. Now you are ready to start CTT tests.