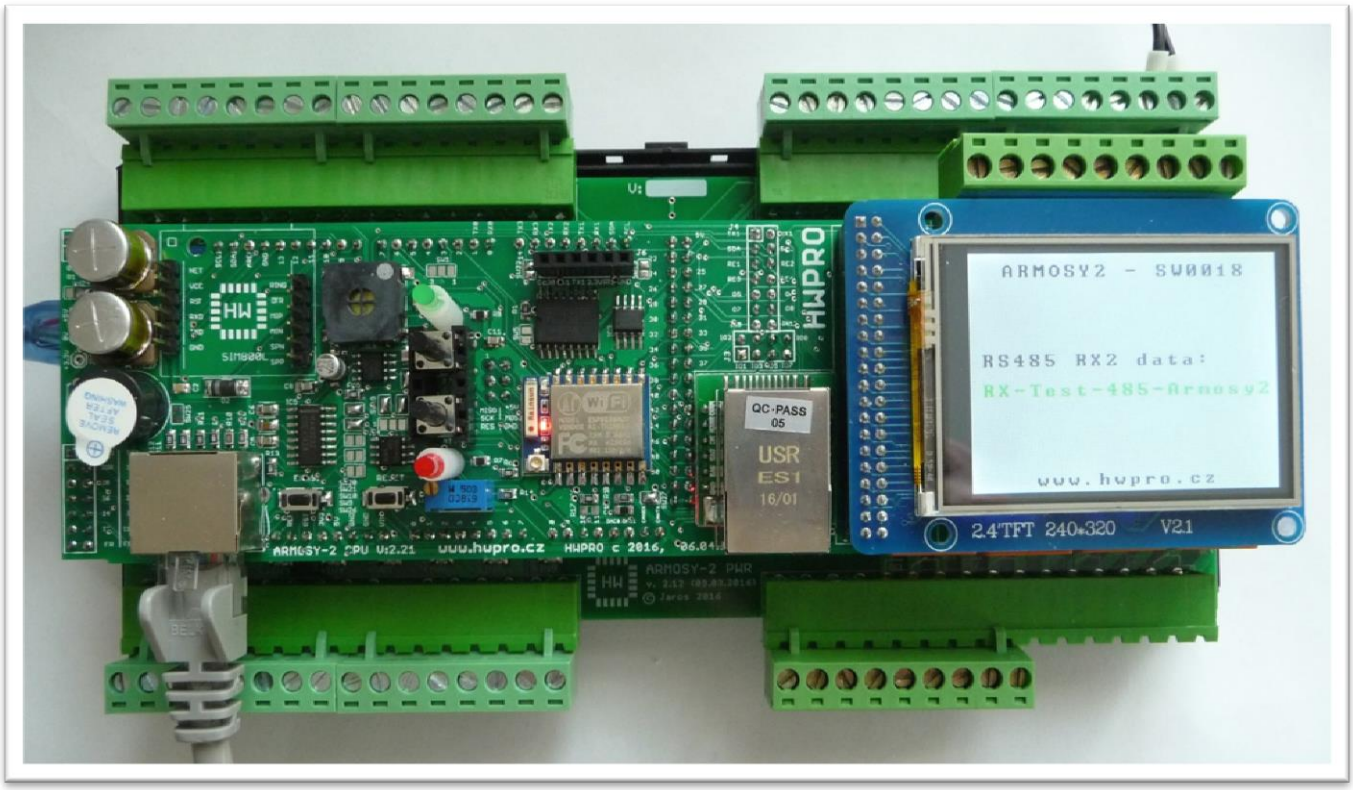
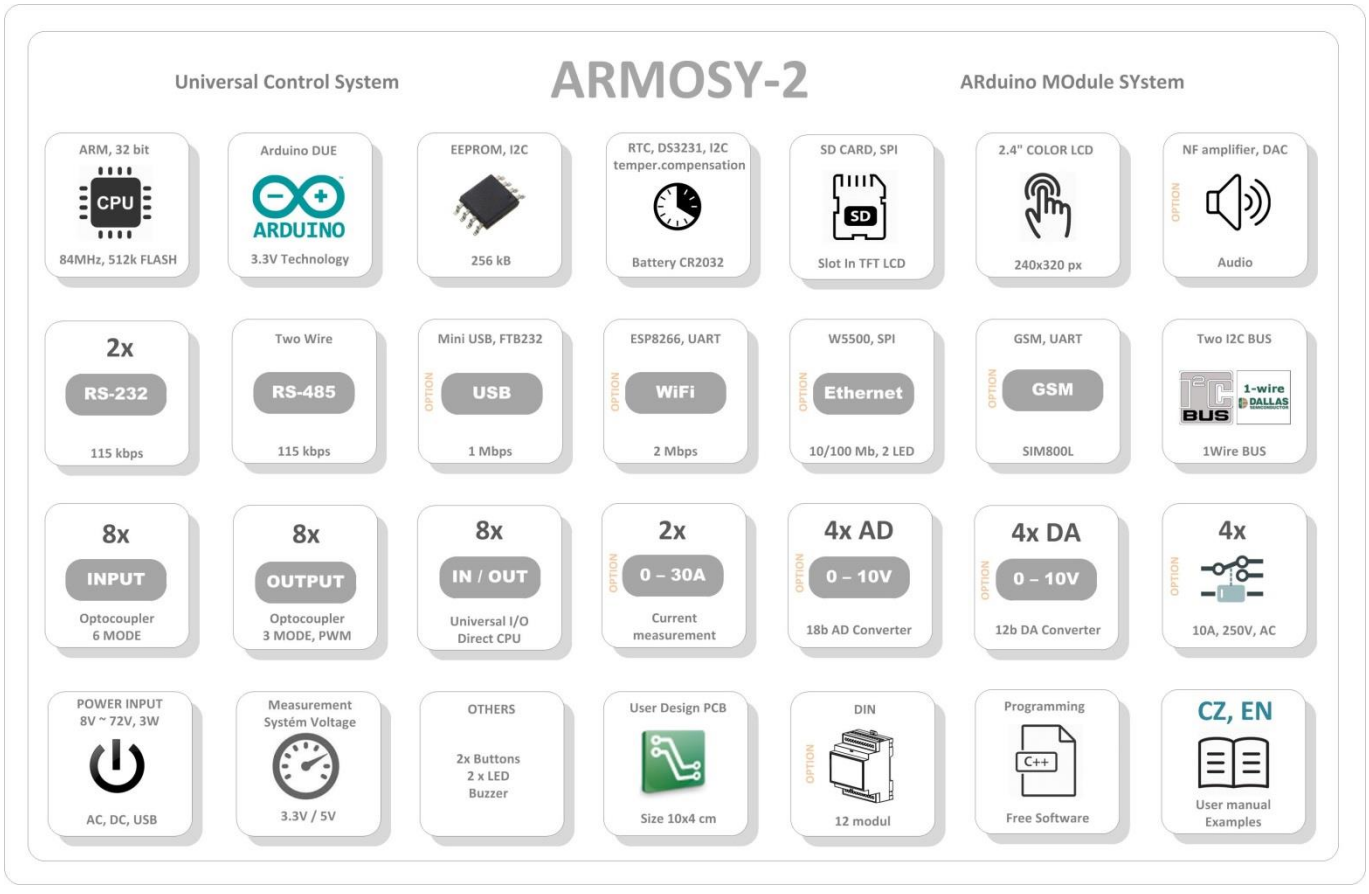
Example – SW0018

Receiver data RS-485 => UART2, View TFT, 115k





```
/* ¦¦¦¦¦¦¦¦¦¦¦¦ ARMOSY-2 Example ¦¦¦¦¦¦¦¦¦¦¦¦
Receiver data RS-485 => UART2, View TFT, 115k
Hardware: ARMOSY-2
Version HW: 2.21
Create: 24.04.2016

¦¦¦¦¦¦¦¦¦¦¦¦ TERMINAL CONNECTION ¦¦¦¦¦¦¦¦¦¦¦¦
63 - IN POWER, VCC min 8V/1A!
64 - IN POWER, -"-
74 - RS-485, 1(TX2),2(RX2), Terminal 115200 8N1

¦¦¦¦¦¦¦¦¦¦¦¦ JUMPER ¦¦¦¦¦¦¦¦¦¦¦¦
SW7 - ON (Enable TX RS485)
SW19 - ON (Enable RX RS485)
Disconnect SIM800L
*/

// ¦ LIBRARY
#include <UTFT.h> //Driver UTFT

// ¦ DECLARATIONS
UTFT  myGLCD(ITDB24,38,39,40,41); // RS, WR, CS, REST
extern uint8_t BigFont[]; // UTFT Fonds
String command;  //String to hold commands
#define RS485 Serial2 // USB
byte RS485_DERE = 41; // RX/TX RS485

// ¦¦¦¦¦¦¦¦¦¦¦¦ SETUP ¦¦¦¦¦¦¦¦¦¦¦¦

void setup() {

// ¦ UTFT
  myGLCD.InitLCD();               // Initialization LCD
  myGLCD.clrScr();                // Clear Screen
  myGLCD.fillScr(VGA_WHITE);      // VGA Background Transparency
  myGLCD.setColor(0, 0, 0);       // Black Fonds
  myGLCD.setBackColor(255, 255, 255); // White Background
  myGLCD.setFont(BigFont);        // Select Font

// ¦ HEADER
  myGLCD.print("ARMOSY2 - SW0018", CENTER, 10);
  myGLCD.print("www.hwpro.cz", CENTER, 220);
  myGLCD.print("RS485 RX2 data:", 10, 100);

// ¦ SERIAL UART
   Serial2.begin(115200); // Speed UART1

// ¦ RS485 SWITCH RX/TX
   pinMode(RS485_DERE, OUTPUT);
   digitalWrite(RS485_DERE, LOW); // L RX Enable, H TX Enable
}
```

```
// !!!!!!!!!!!!! MAIN !!!!!!!!!!!!!

void loop(){

 while(RS485.available()>0)  // RX data RS485
  if(RS485.available()>0)
  {
   char c = RS485.read(); // c <= RS485
   if(c == '\n')
   {
     ParseCmd(command);
     command = "";
   }
   else if (c != '\r')command += c;
  }
}

 // Read command
void ParseCmd(String com)
{
    String cmd = com.substring(com.indexOf(":")+1); // cmd <= serial:
    myGLCD.setColor(0, 255, 0); // Green Fonds
    myGLCD.print(cmd, 10, 130); // Print UTFT
}
```