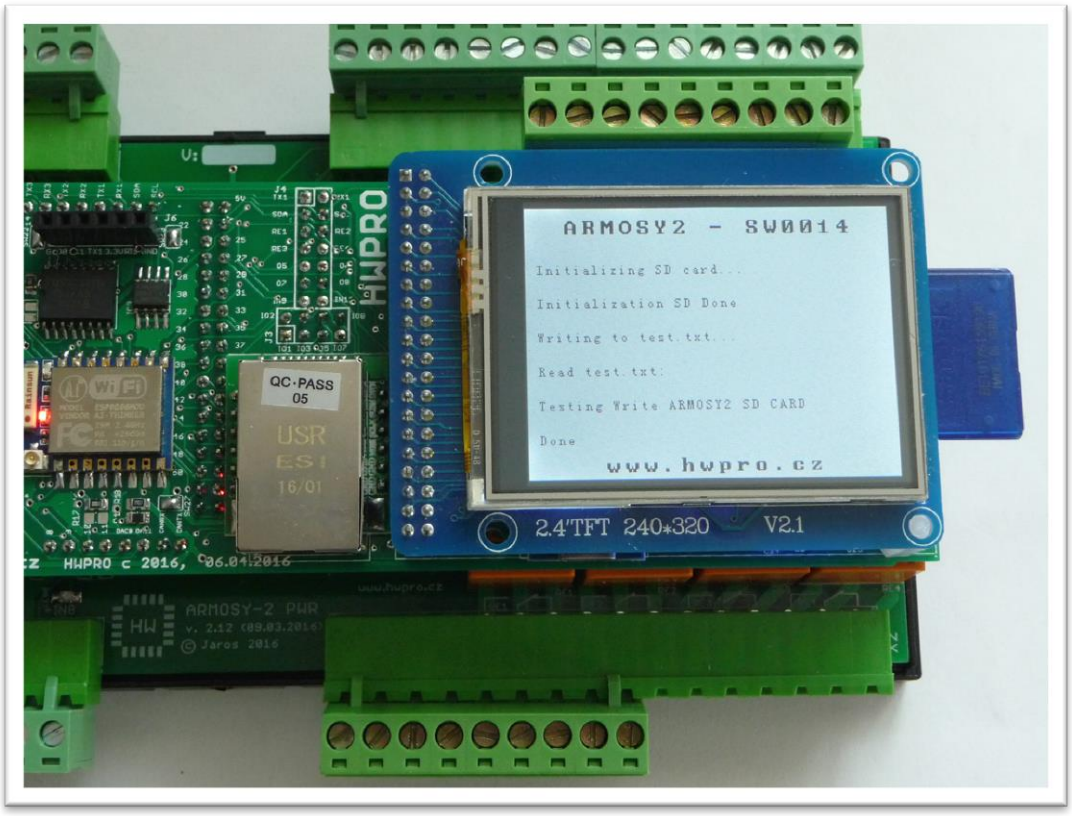
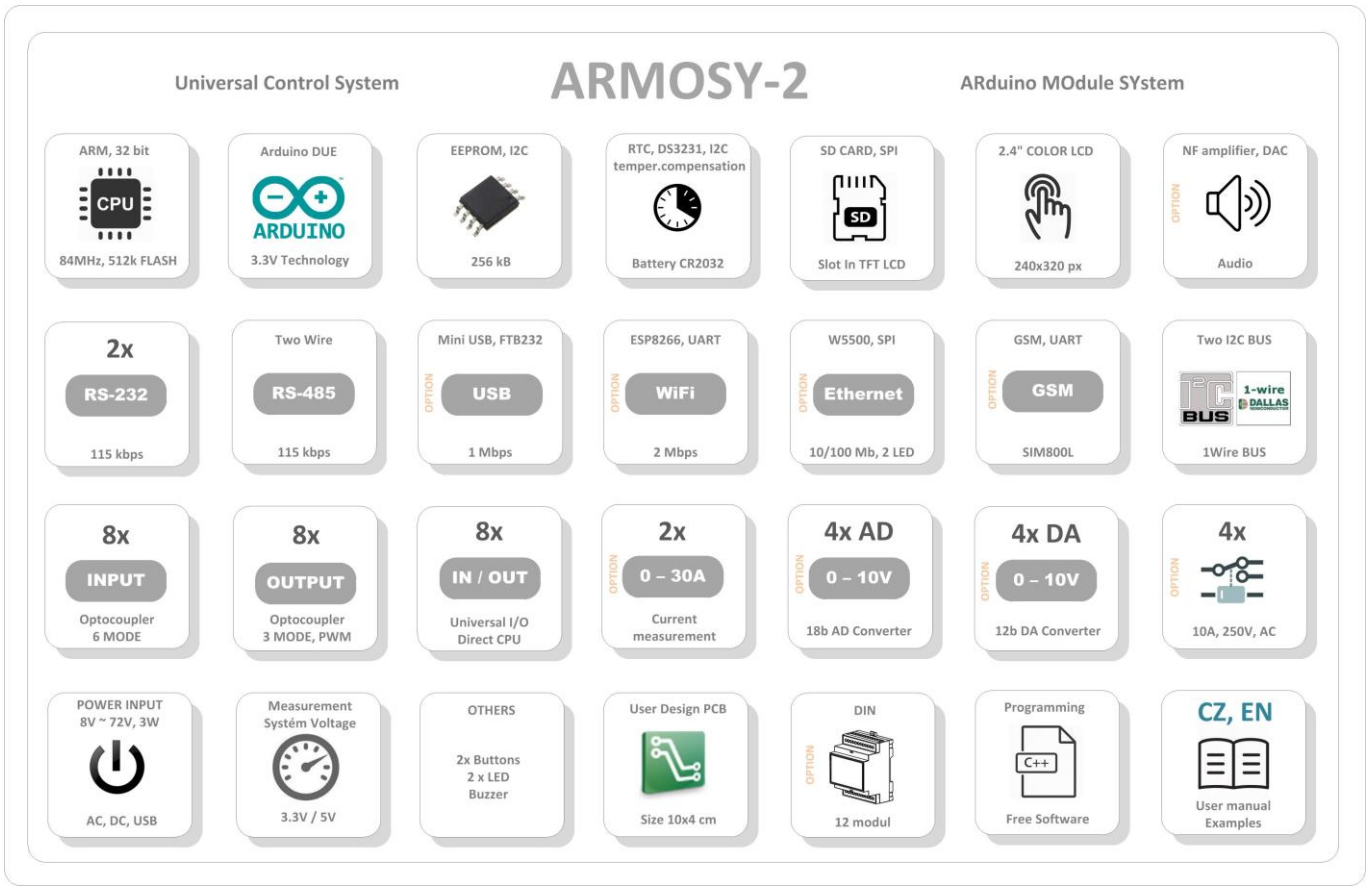
Example – SW0014

SD CARD WRITE/READ file, Read to TFT





```
/* ¦¦¦¦¦¦¦¦¦¦¦¦ ARMOSY-2 Example ¦¦¦¦¦¦¦¦¦¦¦
SD CARD WRITE/READ file, Read to TFT
Hardware: ARMOSY-2
Version HW: 2.21
Create: 24.04.2016

¦¦¦¦¦¦¦¦¦¦¦¦ TERMINAL CONNECTION ¦¦¦¦¦¦¦¦¦¦¦
63 - IN POWER, VCC min 8V/1A!
64 - IN POWER, -"-
*/

// ¦ LIBRARY
#include <UTFT.h> //Driver UTFT
#include <SPI.h> // SPI driver
#include <SD.h> // SD Card
File myFile;

// ¦ DECLARATIONS
UTFT  myGLCD(ITDB24,38,39,40,41); // RS, WR, CS, REST
extern uint8_t BigFont[]; // UTFT Fonds
extern uint8_t SmallFont[]; // UTFT Fonds

String command;  // For Text To LCD, SD is not needed

// ¦¦¦¦¦¦¦¦¦¦¦¦ 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 - SW0014", CENTER, 10);
  myGLCD.print("www.hwpro.cz", CENTER, 220);
  myGLCD.setFont(SmallFont);         // Select Font
  myGLCD.print("Initializing SD card...", 10, 50);

// ¦ SD CARD
  if (!SD.begin(4)) {
    myGLCD.print("Initialization SD Failed!", 10, 80);
    return;
  }
    myGLCD.print("Initialization SD Done   ", 10, 80);

   myFile = SD.open("test.txt", FILE_WRITE);  // Open file

  // if the file opened okay, write to it:
  if (myFile) {
    myGLCD.print("Writing to test.txt...", 10, 110);
    myFile.println("Testing Write ARMOSY2 SD CARD");
    myFile.close(); // close the file:
    myGLCD.print("Done", 10, 200);
  } else {
```

```
    // if the file didn't open, print an error:
    myGLCD.print("Error Opening test.txt", 10, 140);
  }

  // re-open the file for reading:
    myFile = SD.open("test.txt");
    if (myFile) {
      myGLCD.print("Read test.txt:", 10, 140);
      // read from the file until there's nothing else in it:
      while (myFile.available()) {
      Print_TFT (); // Print File To TFT
      }
      myFile.close();  // close the file:
    }
    else {
    myGLCD.print("Error Opening 'test.txt'", 10, 200);  // if the file didn't open,
print an error:
    }
}


// ||||||||||||| MAIN |||||||||||||

void loop(){
}


// Serial data to LCD
void Print_TFT (){
     char c = myFile.read();
     if(c == '\n'){
     ParseCmd(command);
     String command = "";
     }
     else if (c != '\r')command += c;
 }

// Read command
void ParseCmd(String com)
{
    String cmd = com.substring(com.indexOf(":")+1); // cmd <= serial:
    myGLCD.print(cmd, 10, 170); // Print UTFT
}
```