

Example – SW0016

Receiver data USB => UART3, View TFT



Universal Control System		ARMOSY-2		ARduino MOdule SYstem		
 ARM, 32 bit 84MHz, 512k FLASH	 Arduino DUE 3.3V Technology	 EEPROM, I2C 256 kB	 RTC, DS3231, I2C temper.compensation Battery CR2032	 SD CARD, SPI Slot In TFT LCD	 2.4" COLOR LCD 240x320 px	 OPTION NF amplifier, DAC Audio
 2x RS-232 115 kbps	 Two Wire RS-485 115 kbps	 Mini USB, FTB232 OPTION USB 1 Mbps	 ESP8266, UART OPTION WiFi 2 Mbps	 W5500, SPI OPTION Ethernet 10/100 Mb, 2 LED	 GSM, UART OPTION GSM SIM800L	 Two I2C BUS 1Wire BUS
 8x INPUT Optocoupler 6 MODE	 8x OUTPUT Optocoupler 3 MODE, PWM	 8x IN / OUT Universal I/O Direct CPU	 2x 0 - 30A OPTION Current measurement	 4x AD 0 - 10V OPTION 18b AD Converter	 4x DA 0 - 10V OPTION 12b DA Converter	 4x 10A, 250V, AC
 POWER INPUT 8V ~ 72V, 3W AC, DC, USB	 Measurement System Voltage 3.3V / 5V	 OTHERS 2x Buttons 2 x LED Buzzer	 User Design PCB Size 10x4 cm	 DIN 12 modul	 Programming C++ Free Software	 CZ, EN User manual Examples

```

/* ||||| ARMOSY-2 Example |||||
Receiver data USB => UART3, View TFT
Hardware: ARMOSY-2
Version HW: 2.21
Create: 24.04.2016

||||| TERMINAL CONNECTION |||||
63 - IN POWER, VCC min 8V/1A!
64 - IN POWER, -"-
76 - USB, Terminal 115200 8N1

||||| JUMPER |||||
SW9 - OFF
SW10 - OFF
*/

// | 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 USB Serial3 // USB

// ||||| 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 - SW0016", CENTER, 10);
myGLCD.print("www.hwpro.cz", CENTER, 220);
myGLCD.print("USB RX3 data:", 10, 100);

// | SERIAL UART
Serial3.begin(115200); // Speed UART3 ARMOSY USB FT232
}

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

void loop() {

while(USB.available()>0) // RX data USB (RX3)
if(USB.available()>0)
{
char c = USB.read(); // c <= USB
if(c == '\n')
{
ParseCmd(command);
}
}
}

```

**HWPRO**

Vývoj a výroba elektronických zařízení

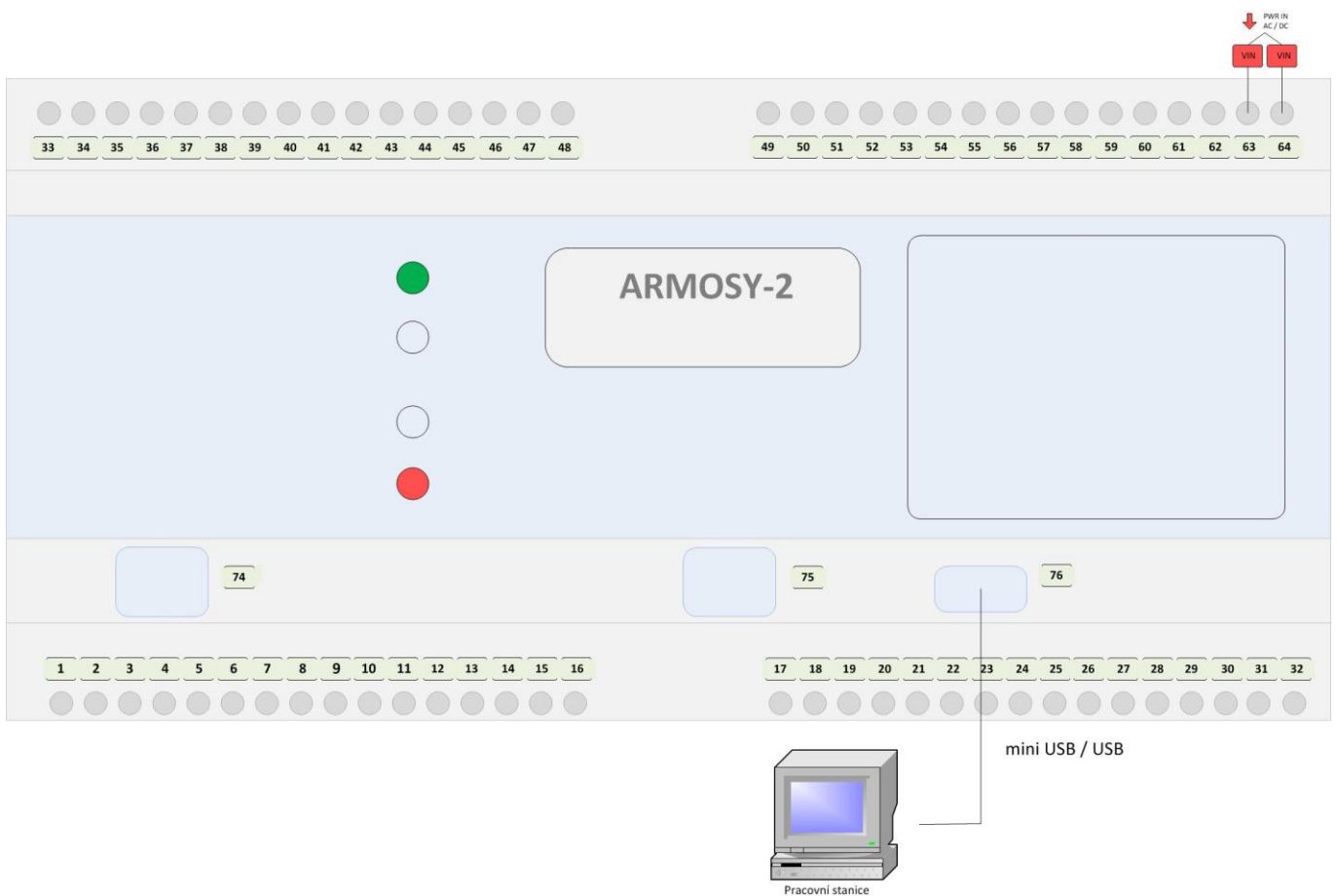
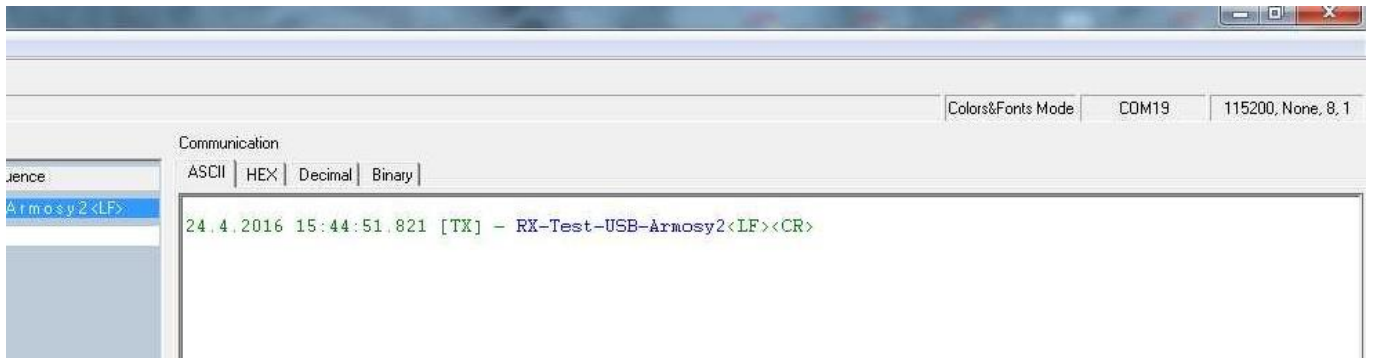
e-mail: info@hwpro.czweb: www.hwpro.cz

```

        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 Founds
    myGLCD.print(cmd, 10, 130); // Print UTFT
}

```


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 e-mail: info@hwpro.cz
 web: www.hwpro.cz