User IO

4V

R3 560K

DISP_PWR

R5 560K

T2 BSS123

SDA
SCL
DISP_PWR

2u2 C4

11	SDA	C1P	3	C1 2u2
10	SCL	C1N	4	
9	RES	C2P	1	C5 2u2
14	VCC	C2N	2	
5	VBAT	VBREF	6	R4 560k
8	VDD	IREF	12	
7	GND	VCOMH	13	

+3V3

OLED 0,49"

C6 2u2
C7 2u2

R9 3k3   SDA
+3V3
R8 3k3   SCL

JOY1
RN1 6k8

ADOUT

+3V3

S1
A   UP   LEFT   C
D   DOWN   RIGHT   B
GND GND   CENT   CTR

JOY2

RN2 6k8

GND

Power supply

USB
D+
D-
VBUS
GND

CHMON

RN3 6k8

VBAT 3	BAT	VDD	4	VBUS
2	VSS			C12 10u
1	STAT	PROG	5	R15 22k

VBUS

MCP73831

53048-02
X2-1
X2-2
BAT

10u
C13

VBAT

4V
10u
C14

VBUS
D3

MCP1702-SOT23 +3V3
In   IC5   Out
VSS
C15 2u2

Analog part

4V
PAN_EN

1	IN	OUT	5	V+
3	SHDN			2u2
2	GND	BYP	4	C2

TC1015

VBAT   R1 3M3   VBAT_D
R2 560K   C3 470p

R6 470K
R7 10K
> +

SJ1
AGND 1 ● 2 GND

V+
2u2 2u2
+3V3
C8 C9

MUX2

NC7SB3157

MUX3

D2 1N4148

1	B1	GND	2
4	A		6	MUX1
3	B0	VDD	5
	S			> V+

P$1*2
R10 10M
R11 1M
C10 470p

P$1*2
R12 0R
R13 DNP
> +

V+
11	AIN0	CS	2	ACS
10	AIN1	SCLK	1	ACLK
7	AIN2	DIN	16	ADIN
6	AIN3	DOUT	15	ADOUT
9	REFP0	DRDY	14	
8	REFN0	CLK	3	GND +3V3
12	AVDD	DVDD	13	
5	AVSS	DGND	4	

ADS1120

MCU

MCLR   PGD
R14 22k   PGC

+3V3
2u2 C11

PIC16F1829

+3V3

1	VDD	RB4/AN10/SDA/SDI/CLC3IN0/IOC/Y	13	SDA
20	VSS	RB5/AN11/RX/DT/CLC4IN0/IOC/Y	12	DISP_PWR
19	RA0/ICSPDAT/AN0/DACOUT1/C1IN+/IOC/	RB6/SCL/SCK/IOC/Y	11	SCL
18	RA1/ICSPCLK/AN1/VREF+/C1IN0-C2IN0-/CLC4IN1	RB7/TX/CK/CLC3/IOC/Y	10	JOY2
4	RA3/MCLR/VPP/T1G/SS/CLC1IN0/IOC/Y/MCLRVPP	RC0/AN4/C2IN+/CLC2	16	MUX2
17	RA2/AN2/DACOUT2/C1OUT/T0CKI/CLC1/PWM3	RC1/AN5/C1IN1-C2IN1-/NCO1/PWM4	15	MUX3
3	RA4/AN3/SOSCOT1G/IOC/Y/CLKOUTOSC2	RC2/AN6/C1IN2-C2IN2-	14	MUX1
2	RA5/SOSCIT1CKI/NCO1CLK/IOC/Y/CLKINOSC1	RC3/AN7/C1IN3-/CLC2INO/PWM2	7	VBAT_D
8	RC6/AN8/SS/NCO1/CLC3IN1	RC4/C2OUT/CWG1B/CLC4CLC2IN1	6	ACS
9	RC7/AN9/SDO/CLC1IN1	RC5/CWG1A/CLC1/PWM1	5	ACLK

PGD
PGC
MCLR
PAN_EN
ADOUT
ADIN
JOY1
CHMON

Micro progmeter 1.1   Jaromir Sukuba, 2015
http://jaromir.xf.cz/ , https://hackaday.io/jaromir