Mounting Holes

H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole

VCC
3.3V

+5V
5V

Power Sources

+5V
J2
PowerSource
GND

J3
USB_B_Micro+5V
VBUS
D+
D-
ID
Shield
GND
GND GND

+5V
10uF
C8
U3
LD1117
VI
GND
VO
VCC
GND

PIC24_MCLR
10uF
C7
GND
VCC
R1 4.7K
R2 270
C1 0.1uF
JP5 Program
GND

U1 PIC24

Vpp/MCLR/RE3
Vcap/Vddcore
RA0
RA1
RA2
RA3
RA4
DISVREG
TMS/RB5
TDI/RB7
TCK/RB8
TDO/RB9
Vss
Vdd
Vdd
Vss

RB0
RB1
RB2
RB3
RB4
RB5
RB7
RB8
RB9
RB10
RB11
RB13
RB14
RB15
Vusb
Vbus

GND
VCC
C3 0.1uF
GND
VCC
C2 0.1uF
GND

+5V
0.1uF C4
GND
PIC16_MCLR
+5V
R5 270
MCLR
OSC1/CLKIN
OSC2/CLKOUT
VDD
VSS

U2 PIC16

C5 30pf
Y1 Crystal
C6 30pf
GND
GND

RA0
RA1
RA2
RA3
RA4
TOCKI/RA4
INT/RB0
RB1
RB2
RB3
RB4
RB5
RB6
RB7

GND

PIC24_PGED RB0   PIC16_PGED RB7
PIC24_PGEC RB1   PIC16_PGEC RB6

J4 Conn_01x08_Pin
1 RA0
2 RA1
3 RA2
4 RA3
5 RA4
6 5V
7 3.3V
8 GND

J10 Conn_01x08_Pin
1 RB8
2 RB9
3 RB10
4 RB11
5 RB13
6 RB14
7 RB15
8 5V
9 3.3V
10 GND

JP1 Jumper_PGED
PIC16_PGED 1 2 3 PIC24_PGED
PGED

JP2 Jumper_MCLR
PIC16_MCLR 1 2 3 PIC24_MCLR
/MCLR

J9 Conn_01x08_Pin
1 RB0
2 RB1
3 RB2
4 RB3
5 RB4
6 RB5
7 RB6
8 RB7
9 3.3V
10 GND

JP3 Jumper_PGEC
PIC16_PGEC 1 2 3 PIC24_PGEC
PGEC

J1 PICKitConnector
1 /MCLR
2 VCC
3 GND
4 PGED
5 PGEC
6

Optional components:
D1,SW1,R3,R4

D1 LED
R4 270 RA1
GND

SW1 SW_Push
VCC
R3 10K
GND RA0