Pwr In +5V
PWR5V
FCI Micro USB

VBUS 1 +5V
D- 2
D+ 3
ID 4
GND 5
Shield 6

U3
NCP702SN33T1G
+5V
1 IN OUT 5 +3.3V
3 EN
GND 2
CP1 1uF
CP2 1uF

5V
+5V
1
2
Power In (alternative)

+5V
U4
MIC2505-1YM
Port1Pwr
1 CTL OUT 8
4 GATE OUT 6
5 IN
7 IN
3 GND FLG 2 OCS1n

U5
MIC2505-1YM
Port2Pwr
1 CTL OUT 8
4 GATE OUT 6
5 IN
7 IN
3 GND FLG 2 OCS2n

U6
MIC2505-1YM
Port3Pwr
1 CTL OUT 8
4 GATE OUT 6
5 IN
7 IN
3 GND FLG 2 OCS3n

USB4
GCT_Mini_USB_Type_B_Female
1 VBUS
2 D-
3 D+
4 NotConnected
5 GND
6 Shield
UPSTREAM

R12 330
0.1uF C5

USB2514 U1
Upstream
27 VBUS_DET
USBUP_DP 31
USBUP_DM 30

Downstream 1
OCS1n 13 OCS1
USBDN1_DP 2
USBDN1_DM 1
PRTPWR1 12 PRTPWR1

Downstream 2
OCS2n 17 OCS2
USBDN2_DP 4
USBDN2_DM 3
PRTPWR2 16 PRTPWR2

Downstream 3
OCS3n 19 OCS3
USBDN3_DP 7
USBDN3_DM 6
PRTPWR3 18 PRTPWR3

Downstream 4
21 OCS4
USBDN4_DP 9
USBDN4_DM 8
PRTPWR4 20

EEPROM/Config
SDA/SMBDATA/NON_REM1 22
SCL/SMBCLK/CFG_SEL0 24
HS_IND/CFG_SEL1 25

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TEST 11
XTAL1/CLKIN 33
XTAL2/CLLIN_EN 32
VSS(FLAG) 37

VDD33(IO) 23
VDD33(REG) 15
VDDA33 5
VDDA33 10
VDDA33 29
VDDA33 36
VDDCR18 14
VDDPLL18 34

100K R11
R9 100K
C3 1.0uF 16V X5R

+3.3V
R14 100K

C6 0.1uF
+3.3V
R5 100K

C9 33pF
R10 1Meg
XTAL 24MHz
C14 33pF

C17 0.1uF
C18 1uF 16V X5R
C15 0.1uF
C16 1uF 16V X5R
C10 0.1uF
C12 0.1uF
C13 0.1uF
C11 0.1uF
C19 4.7uF 6.3V X5R

C7 0.1uF
C8 0.1uF

+3.3V
R8 12.0K 1%
R6 100K
R13 100K
R7 100K

+5V
C31 0.1uF
R31 150
D1 ON

U2
PIC16F1454
1 VDD VSS 14
2 RA5 RA0/D+/ICSPDAT1 13
3 RA4 RA1/D-/ICSPCLK1 12
4 MCLR/VPP/RA3 VUSB3v3 11
PRTPWR1 5 RC5 RC0/ICSPDAT 10
PRTPWR2 6 RC4 RC1/ICSPCLK 9
Port1Pwr 7 RC3 RC2 8

R32 100K
Port3Pwr
Port2Pwr
C32 0.1uF

CONN1
PIC Programmer

FB1
C26 0.1uF
C23 47uF 16V

USB1
MULTICOMP USB Type-A Socket
1 VBUS
2 D-
3 D+
4 GND
5 Shield
DOWNSTREAM 1

FB3
FB2
C27 0.1uF
C24 47uF 16V

USB2
MULTICOMP USB Type-A Socket
1 VBUS
2 D-
3 D+
4 GND
5 Shield
DOWNSTREAM 2

FB5
FB4
C28 0.1uF
C25 47uF 16V

USB3
MULTICOMP USB Type-A Socket
1 VBUS
2 D-
3 D+
4 GND
5 Shield
DOWNSTREAM 3

FB6