



Mounting Holes

- MH1 MOUNTING HOLE 3MM
- MH2 MOUNTING HOLE 3MM
- MH3 MOUNTING HOLE 3MM
- MH4 MOUNTING HOLE 3MM

Title		
Size	Number	Revision
A4		
Date:	2014-05-15	Sheet of
File:	D:\hw\...\U3 IO Board.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF	CAP CER 100nF 16V 10% X7R 1005, CAP CER 100nF 16V 10% X7R 1005, CAP CER 100nF 16V 10% X7R 1005, CAP CER 100nF 16V 10% X7R 1005, CAP CER 100nF,16V,10%,X7R,1005, CAP CER 100nF,16V,10%,X7R,1005, CAP CER 100nF 16V 10% X7R 1005, CAP CER 100nF 16V 10% X7R 1005, CAP CER 100nF 16V 10% X7R 1005, CAP CER 100nF 16V 10% X7R 1005, CAP CER 100nF 16V 10% X7R 1005	C1, C2, C3, C4, C5, C6, C9, C10, C11, C14, C15	CAPC1608L	CAP-NP-100nF-10%-16V-X7R-1005	11
20pF	CAP CER 20pF 50V 5% NPO 1005	C7, C8	CAPC1608L	CAP-NP-20pF-5%-50V-C0G-1005	2
220uF		C12, C13	220uF(6.3pie)	Component_1	2
Blue	LED Blue 1608	D1	1.6X0.8X0.6	LED-Blue-1608	1
Red	LED LED 1608	D2	1.6X0.8X0.6	LED-RED-1608	1
	Header, 20-Pin	JP1, JP5	HDR1X20	Header 20	2
	2mm Pitch Header	JP2	PH03-08DS(12.8mm)	CON-A3B-8PA-2DSA	1
	Header, 5-Pin, Dual row	JP3	2x5_HEADER	Header 5X2	1
ISP	Header, 3-Pin, Dual row	JP4	2X6_HEADER	Header 3X2	1
		JP6, JP7	1x3_HEADER	Component_1	2
HEADER 2X2		JP8	A3B-04PA-2DSA	HEADER 2X2	1
2N7002K	MOSFET N-CH 60-V (D-S)	Q1	SOT23	FET-NCH-2N7002K	1
10k F	RES 10kΩ 1% 1005	R1, R2, R5, R6, R8, R11, R12, R16	RESC1608L	RES-10K-F-1005	8
1k	RES 1kΩ 5% 1005	R3, R4, R9, R10, R13, R14, R15, R17, R18	RESC1608L	RES-1K-J-1005	9
1k F	RES 1kΩ 1% 0603	R7	RESC1608L	RES-1K-F-0603	1
CTT-1102S9	Tact SW	SW1	ITS-1150D	SW-CTT-1102S9	1
TCA6416APWR	LOW-VOLTAGE 16-BIT I2C AND SMBus I/O EXPANDER WITH INTERRUPT OUTPUT, RESET, AND CONFIGURATION REGISTERS	U1	TCA6416APWR	MPU3050	1
FXMA2102	Dual Supply, 2-Bit Voltage Translator/Buffer/Repeater/Isolator for I2C Applications	U2	FXMA2102L8X	FXMA2102	1
ATMEGA328	8-bit Atmel Microcontroller with 4/8/16K Bytes In-System Programmable Flash	U3	ATMEGA168	ATMEGA168	1
SST25WF020	SPI Serial Flash	U4	SST25WF020AT	SST25WF020-40-SI-SAF	1
ATS160SM	Crystal 16MHz 20pF 30p	Y1	ATS160SM	ATS160SM	1