/RESET
+5V
U1
RESET
VCC
AVCC
XTAL2
XTAL1
AREF
GND
(PCINT0/ADC0)PA0
(PCINT1/ADC1)PA1
(PCINT2/ADC2)PA2
(PCINT3/ADC3)PA3
(PCINT4/ADC4)PA4
(PCINT5/ADC5)PA5
(PCINT6/ADC6)PA6
(PCINT7/ADC7)PA7
(PCINT8/T0/XCK)PB0
(PCINT9/CLKO/T1)PB1
(PCINT10/AIN0/INT2)PB2
(PCINT11/AIN1/OC0)PB3
(PCINT12/OC0B/SS)PB4
(PCINT13/MOSI)PB5
(PCINT14/MISO)PB6
(PCINT15/SCK)PB7
DIL40
(PCINT16/SCL)PC0
(PCINT17/SDA)PC1
(PCINT18/TCK)PC2
(PCINT19/TMS)PC3
(PCINT20/TDO)PC4
(PCINT21/TDI)PC5
(PCINT22/TOSC1)PC6
(PCINT23/TOSC2)PC7
(PCINT24/RXD0)PD0
(PCINT25/TXD0)PD1
(PCINT26/RXD1/INT0)PD2
(PCINT27/TXD1/INT1)PD3
(PCINT28/XCK1/OC1B)PD4
(PCINT29/OC1A)PD5
(PCINT30/OC2B/ICP)PD6
(PCINT31/OC2A)PD7
ATMEGA1284P-P
Q1
20MHz
C13
18pF
C14
18pF
MOSI
MISO
SCK
JP4
ISP
JP3
JTAG
C15
100nF
RxD
TxD
JP5
UART
MIDIIN
MIDIOUT
DIN_5
DB15
Connect_DB15MALE
Joystick
MIDI
X1
R6
220
TTL_MIDI_TX
TTL_MIDI_RX
R4
220
R5
220
R8
3.3K
R9
220K
1N4148
D1
OC1 6N136
DIP-8
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
100nF
74LS374
Housings_DIP:DIP-20_W7.62mm
R1
4.7K
R2
4.7K
74LS09
IC9C
Housings_DIP:DIP-14_W7.62mm
IC6A
IC6B
IC7A
74LS74
IC3
74LS244
DRR
/DSR
IC9A
74LS08
IC9B
74LS08
IC4
74LS138
/DW
/CW
/DR
/CR
IC9D
74LS08
IC7B
IC8C
IC8D
IC8E
IC8F
74LS04
BA00
BA01
BA02
BA03
BA04
BA05
BA06
BA07
BA08
BA09
BA10
BA11
BA12
BA13
BA14
BA15
BA16
BA17
BA18
BA19
AEN
IO_READY
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
IO
BUSPC
BUS?
OSC
ALE
TC
DACK2
IRQ3
IRQ4
IRQ5
IRQ6
IRQ7
CLK
DACKO
DRQ1
DACK1
DRQ3
DACK3
IOR
IOW
MEM
+12V
UNUSED
-12V
DRQ2
-5V
INQ2
RESET
IRQ
JP2
IRQ3
IRQ4
IRQ5
IRQ6
IRQ7
IRQ9
IC8A
IC8B
74LS04
R3
4.7K
JP1
300
310
320
330
I/O
IC5
74LS138

Sheet: /
File: HardMPU-fromscratch.sch

Title:

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