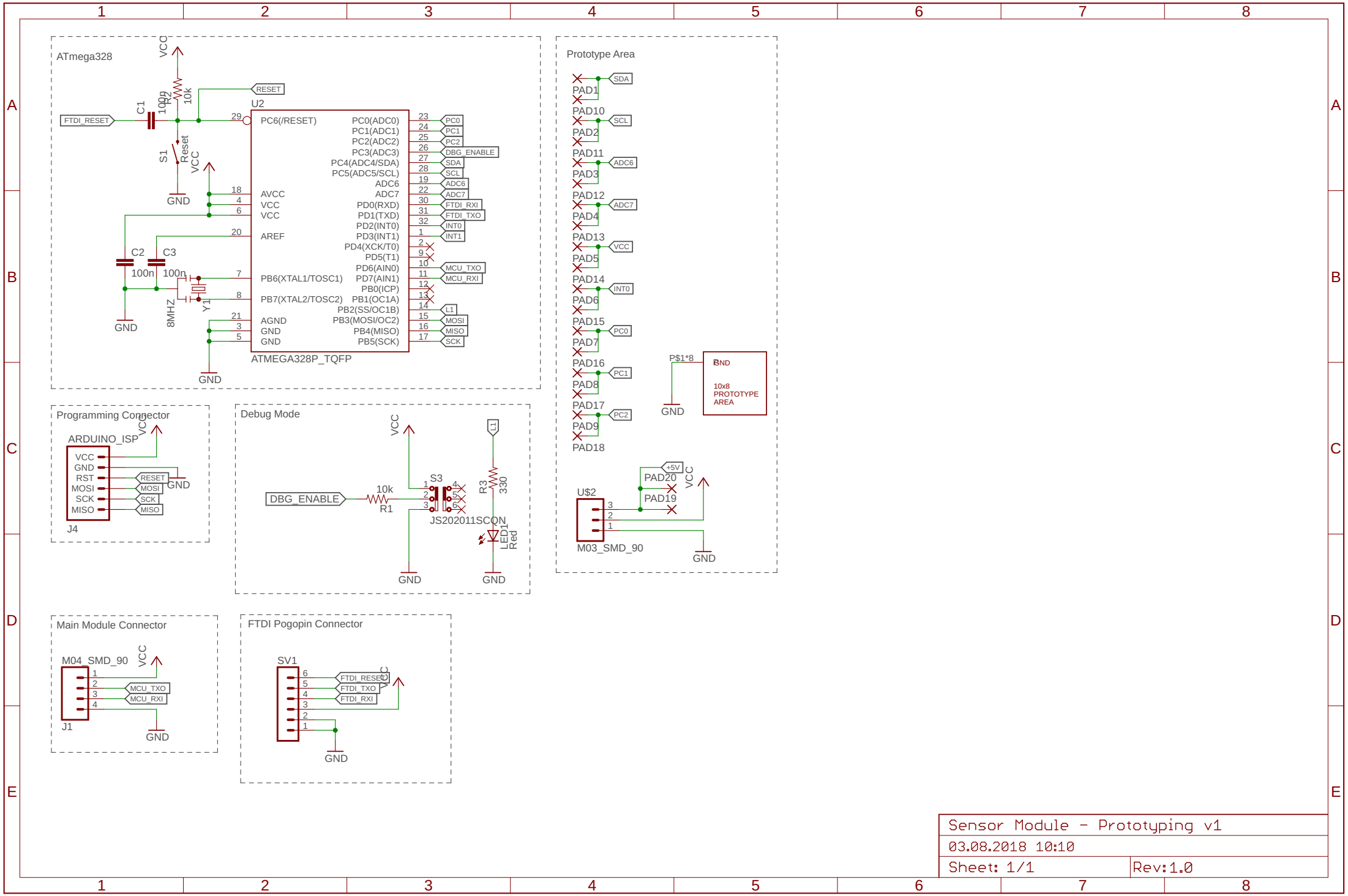
ATmega328
VCC
R2
10k
RESET
FTDI_RESET
C1
100n
U2
29
PC6(/RESET)
S1
Reset
VCC
GND
18
4
6
AVCC
VCC
VCC
20
AREF
C2
C3
100n
100n
7
PB6(XTAL1/TOSC1)
8
PB7(XTAL2/TOSC2)
8MHZ
Y1
21
3
5
AGND
GND
GND
GND
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
ADC6
ADC7
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
23
24
25
26
27
28
19
22
30
31
32
1
2
9
10
11
12
13
14
15
16
17
PC0
PC1
PC2
DBG_ENABLE
SDA
SCL
ADC6
ADC7
FTDI_RXI
FTDI_TXO
INT0
INT1
MCU_TXO
MCU_RXI
L1
MOSI
MISO
SCK
ATMEGA328P_TQFP
Prototype Area
PAD1
PAD10
PAD2
PAD11
PAD3
PAD12
PAD4
PAD13
PAD5
PAD14
PAD6
PAD15
PAD7
PAD16
PAD8
PAD17
PAD9
PAD18
SDA
SCL
ADC6
ADC7
VCC
INT0
PC0
PC1
PC2
P$1*8
GND
10x8
PROTOTYPE
AREA
PAD20
PAD19
+5V
VCC
U$2
M03_SMD_90
GND
Programming Connector
ARDUINO_ISP
VCC
VCC
GND
RST
MOSI
SCK
MISO
RESET
MOSI
SCK
MISO
GND
J4
Debug Mode
VCC
L1
DBG_ENABLE
10k
R1
S3
JS202011SCQN
R3
330
LED1
Red
GND
GND
Main Module Connector
M04_SMD_90
VCC
MCU_TXO
MCU_RXI
J1
GND
FTDI Pogopin Connector
SV1
FTDI_RESET
FTDI_TXO
FTDI_RXI
VCC
GND
Sensor Module - Prototyping v1
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Rev:1.0