Arduino Pro Mini (ATMEGA328P 3.3V 8MHz)

ARDUINO1
M12PTH
12
11 GND
10
9 VCC
8 AD3
7 AD2
6 AD1
5 AD0
4 SCK
3 MISO
2 MOSI
1 D10

VCC
C3
100nF
GND

ARDUINO2
M12PTH
12 TX
11 RX
10
9
8 INT0
7 INT1
6 D4
5 D5
4 D6
3 CE
2 CSN
1 D9

I2C
2 SCL
1 SDA

SDA R3 5.1k
SCL R4 5.1k
VCC

Air Condition Sensor

AM2321
4 SCL
3 GND
2 SDA
1 VCC
VCC
GND

Voltage Regulation

MCP1700T-3302-TO
3
2 RAW
1
GND
RAW
C1 1uF
GND
VCC
C2 1uF
GND

Vin (MAX) = 6V
Vout = 3.3V
Iout (MAX) = 250mA

Power Supply

RAW
2
1 RAW
GND

Vraw (3 AA LR6 Batteries) = 4.5V

Radio

NRF24L01+
M04X2
1 2
CE 3 4 CSN
SCK 5 6 MOSI
MISO 7 8 IRQ
VCC
GND

Real Time Clock

Y1 32.768kHz

IC1
PCF8563DIP
1 OSCI
2 OSCO
INT0 3 INT#
VCC 8 VDD
GND 4 VSS
SDA 5 SDA
SCL 6 SCL
CLKOUT 7

Battery-powered Wireless AC Sensor

cpod-MCP1700-AM2321
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