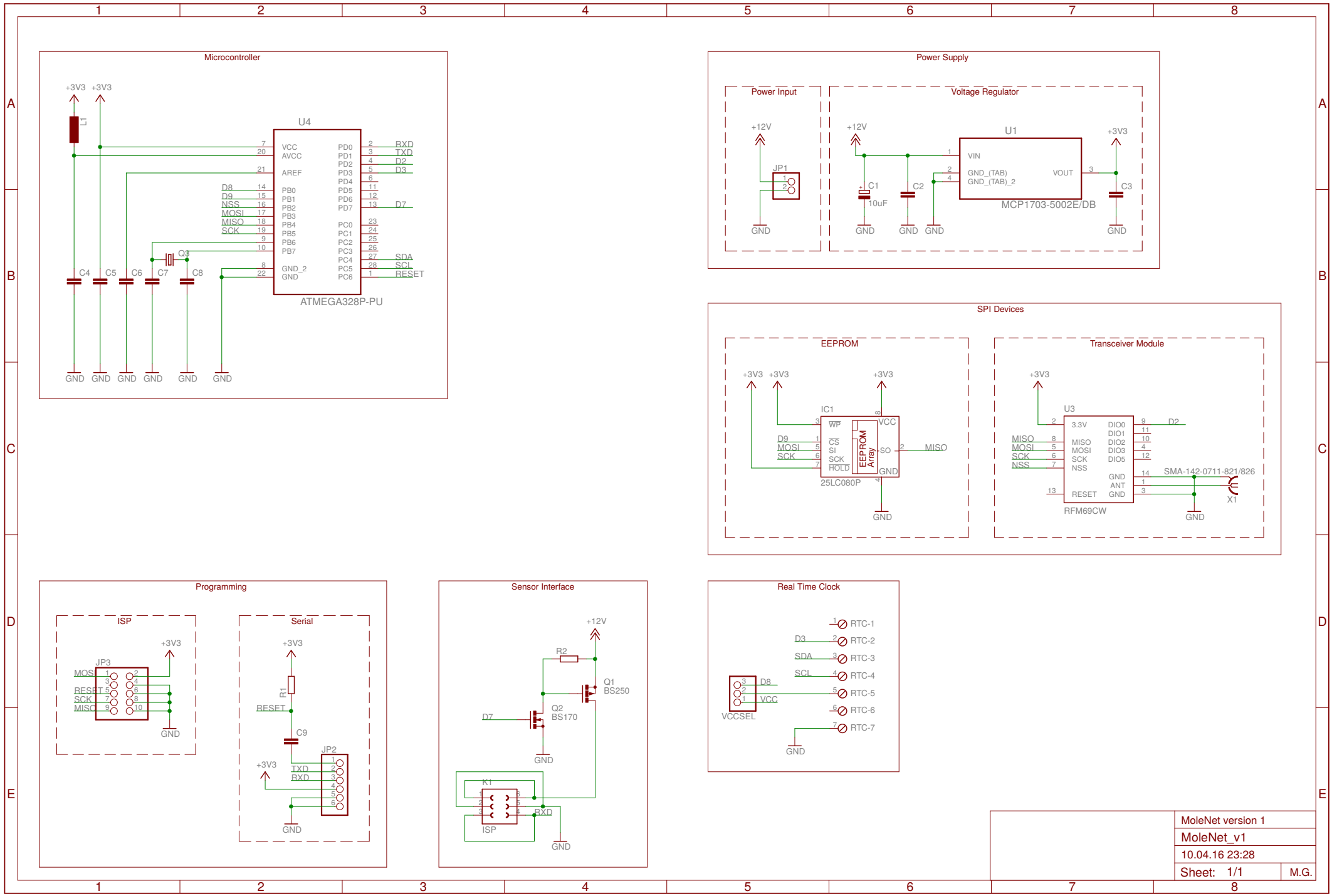
Microcontroller
+3V3 +3V3
L1
U4
VCC
AVCC
AREF
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
GND_2
GND
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
PC0
PC1
PC2
PC3
PC4
PC5
PC6
RXD
TXD
D2
D3
D7
SDA
SCL
RESET
D8
D9
NSS
MOSI
MISO
SCK
Q1
C4 C5 C6 C7 C8
ATMEGA328P-PU
GND GND GND GND GND GND
Power Supply
Power Input
+12V
JP1
GND
Voltage Regulator
+12V
U1
VIN
GND_(TAB)
GND_(TAB)_2
VOUT
+3V3
C1
10uF
C2
C3
MCP1703-5002E/DB
GND GND GND GND
SPI Devices
EEPROM
+3V3 +3V3
+3V3
IC1
WP
CS
SI
SCK
HOLD
VCC
SO
GND
EEPROM Array
D9
MOSI
SCK
MISO
25LC080P
GND
Transceiver Module
+3V3
U3
3.3V
MISO
MOSI
SCK
NSS
RESET
DIO0
DIO1
DIO2
DIO3
DIO5
GND
ANT
GND
D2
MISO
MOSI
SCK
NSS
SMA-142-0711-821/826
X1
RFM69CW
GND
Programming
ISP
+3V3
JP3
MOSI
RESET
SCK
MISO
GND
Serial
+3V3
R1
RESET
C9
JP2
+3V3
TXD
RXD
GND
Sensor Interface
+12V
R2
Q1
BS250
Q2
BS170
D7
GND
K1
ISP
RXD
GND
Real Time Clock
RTC-1
RTC-2
RTC-3
RTC-4
RTC-5
RTC-6
RTC-7
D3
SDA
SCL
D8
VCC
VCCSEL
GND
MoleNet version 1
MoleNet_v1
10.04.16 23:28
Sheet: 1/1
M.G.