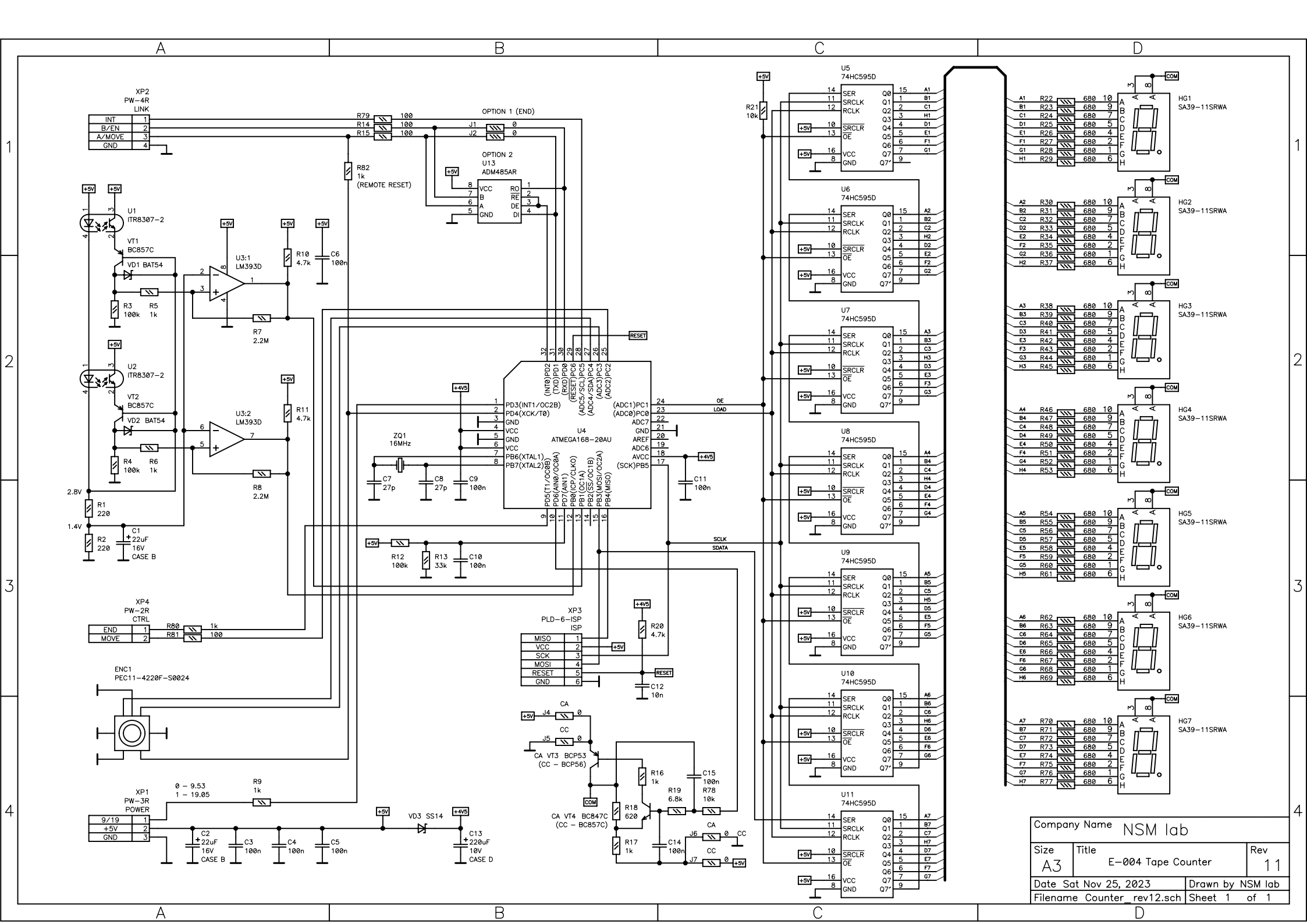
XP2
PW-4R
LINK
INT
B/EN
A/MOVE
GND
R79 100
R14 100
R15 100
OPTION 1 (END)
J1 0
J2 0
R82
1k
(REMOTE RESET)
OPTION 2
U13
ADM485AR
VCC
B
A
GND
RO
RE
DE
DI
U1
ITR8307-2
VT1
BC857C
VD1 BAT54
R3 100k
R5 1k
U3:1
LM393D
R10 4.7k
C6 100n
R7 2.2M
U2
ITR8307-2
VT2
BC857C
VD2 BAT54
R4 100k
R6 1k
U3:2
LM393D
R11 4.7k
R8 2.2M
2.8V
1.4V
R1 220
R2 220
C1 22uF 16V CASE B
RESET
U4
ATMEGA168-20AU
PD3(INT1/OC2B)
PD4(XCK/T0)
GND
VCC
GND
VCC
PB6(XTAL1)
PB7(XTAL2)
(INT0)PD2
(TXD)PD1
(RXD)PD0
(RESET)PC6
(ADC5/SCL)PC5
(ADC4/SDA)PC4
(ADC3)PC3
(ADC2)PC2
(ADC1)PC1
(ADC0)PC0
ADC7
GND
AREF
ADC6
AVCC
(SCK)PB5
PD5(T1/OC0B)
PD6(AIN0/OC0A)
PD7(AIN1)
PB0(ICP/CLKO)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2A)
PB4(MISO)
OE
LOAD
SCLK
SDATA
ZQ1
16MHz
C7 27p
C8 27p
C9 100n
C11 100n
R12 100k
R13 33k
C10 100n
XP4
PW-2R
CTRL
END
MOVE
R80 1k
R81 100
XP3
PLD-6-ISP
ISP
MISO
VCC
SCK
MOSI
RESET
GND
R20 4.7k
C12 10n
ENC1
PEC11-4220F-S0024
XP1
PW-3R
POWER
9/19
+5V
GND
0 - 9.53
1 - 19.05
R9 1k
C2 22uF 16V CASE B
C3 100n
C4 100n
C5 100n
VD3 SS14
C13 220uF 10V CASE D
CA
CC
J4 0
J5 0
CA VT3 BCP53
(CC - BCP56)
R16 1k
C15 100n
R78 10k
R19 6.8k
R18 620
CA VT4 BC847C
(CC - BCP857C)
R17 1k
C14 100n
J6 0
J7 0
R21 10k
U5
74HC595D
U6
74HC595D
U7
74HC595D
U8
74HC595D
U9
74HC595D
U10
74HC595D
U11
74HC595D
SER
SRCLK
RCLK
SRCLR
OE
VCC
GND
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q7'
HG1
HG2
HG3
HG4
HG5
HG6
HG7
SA39-11SRWA
COM
R22 680
R23 680
R24 680
R25 680
R26 680
R27 680
R28 680
R29 680
R30 680
R31 680
R32 680
R33 680
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R75 680
R76 680
R77 680
Company Name NSM lab
Size A3
Title E-004 Tape Counter
Rev 11
Date Sat Nov 25, 2023
Drawn by NSM lab
Filename Counter_rev12.sch
Sheet 1 of 1