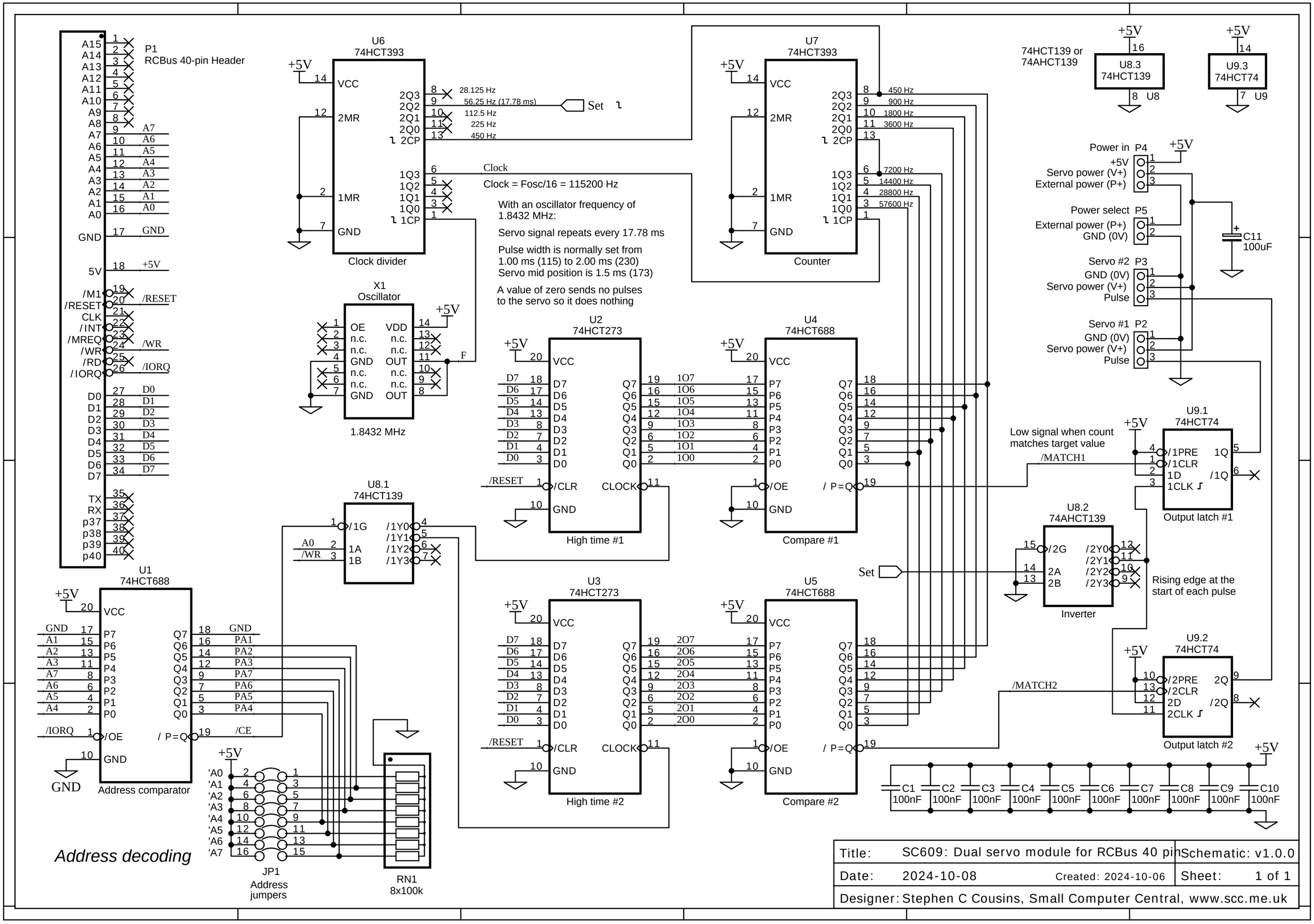
P1
RCBus 40-pin Header
U6
74HCT393
Clock divider
U7
74HCT393
Counter
74HCT139 or
74AHCT139
U8.3
74HCT139
U9.3
74HCT74
Power in P4
Power select P5
Servo #2 P3
Servo #1 P2
C11
100uF
X1
Oscillator
1.8432 MHz
U2
74HCT273
High time #1
U4
74HCT688
Compare #1
U8.1
74HCT139
U9.1
74HCT74
Output latch #1
U8.2
74AHCT139
Inverter
U1
74HCT688
Address comparator
U3
74HCT273
High time #2
U5
74HCT688
Compare #2
U9.2
74HCT74
Output latch #2
Clock
Clock = Fosc/16 = 115200 Hz
With an oscillator frequency of
1.8432 MHz:
Servo signal repeats every 17.78 ms
Pulse width is normally set from
1.00 ms (115) to 2.00 ms (230)
Servo mid position is 1.5 ms (173)
A value of zero sends no pulses
to the servo so it does nothing
Low signal when count
matches target value
Rising edge at the
start of each pulse
Address decoding
JP1
Address
jumpers
RN1
8x100k
Title: SC609: Dual servo module for RCBus 40 pin
Schematic: v1.0.0
Date: 2024-10-08
Created: 2024-10-06
Sheet: 1 of 1
Designer: Stephen C Cousins, Small Computer Central, www.scc.me.uk