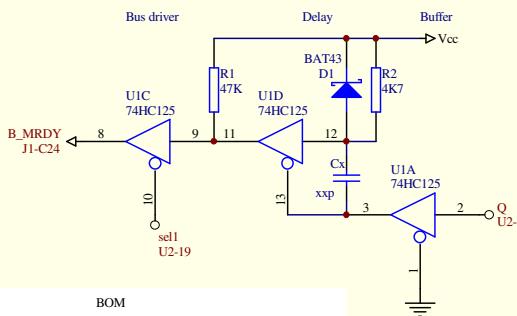
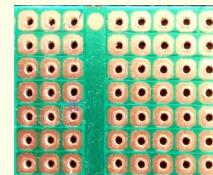


1 2 3 4 5 6

Timing:
 5MHz bus FDC(2.5MHz) E=300nsec /E=100nsec
 4MHz bus FDC(2MHz) E=375nsec /E=125nsec



Print

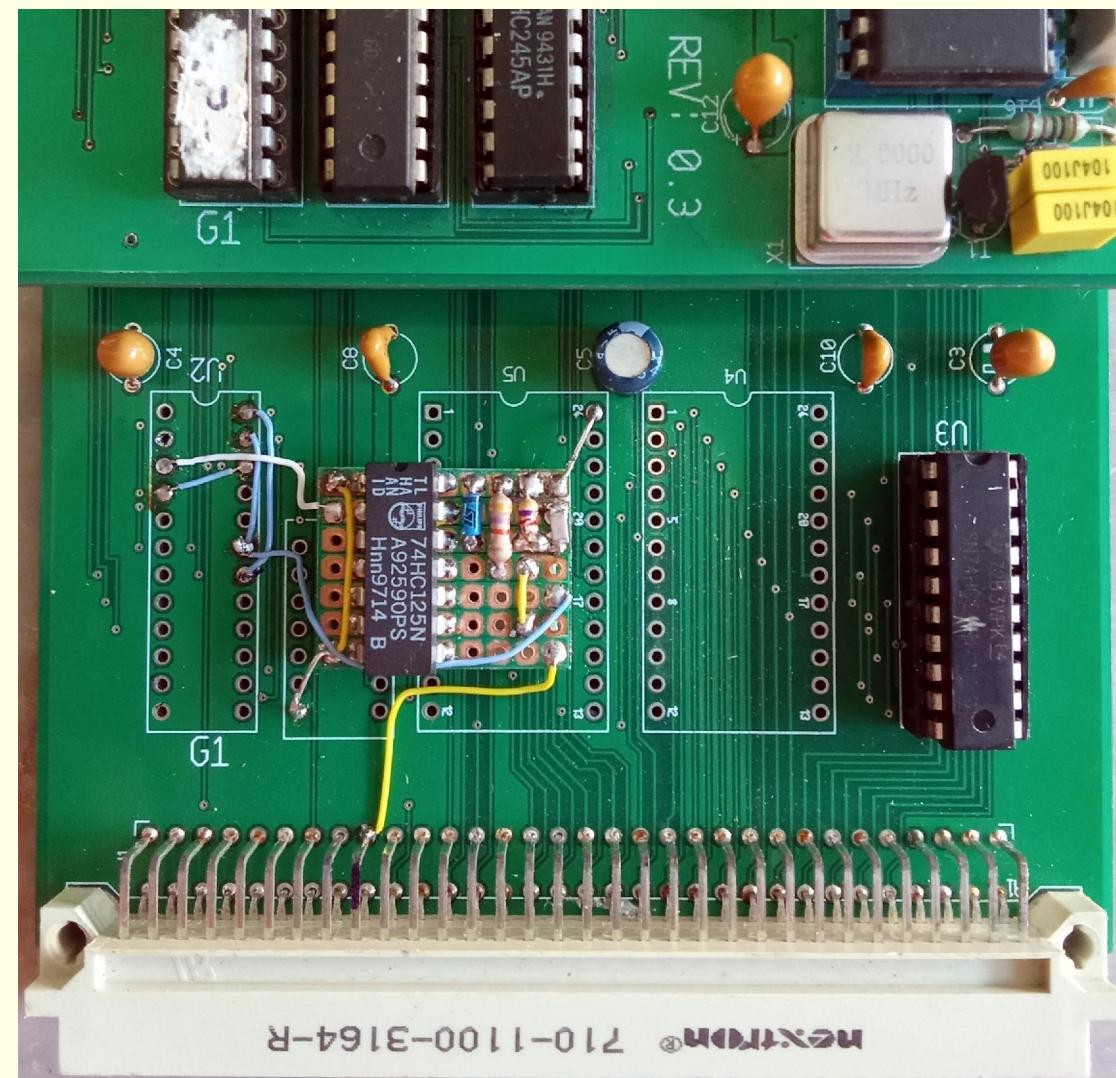
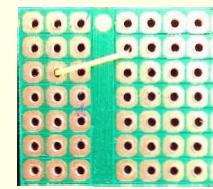


BOM

#	Device	Value	Package type	Refdes
RES.250W	47K 10%	RES12	R1	
RES.125W	4K7 5%	RES12	R2	
CER CAP	39p 5%	1206 SMD	Cx	5MHz bus
CER CAP	56p 5%	1206 SMD	Cx	4MHz bus
DIODE.SCHOTT	BAT43	DIO_DO35	D1	
74HC125	74HC125	DIP14	U1	

Solder all parts like SMD.

Jumper



NECXTREN® 710-1100-3164-R

Title		
Size	Number	Revision
B		
Date: 15-Dec-2025	Sheet of	
File: CMISOFLP_MRDYFLP_MRDY.ddb		Drawn By:

1 2 3 4 5 6

Above show MRDY for 09FLP.

It will stretch E with 1 cycle.

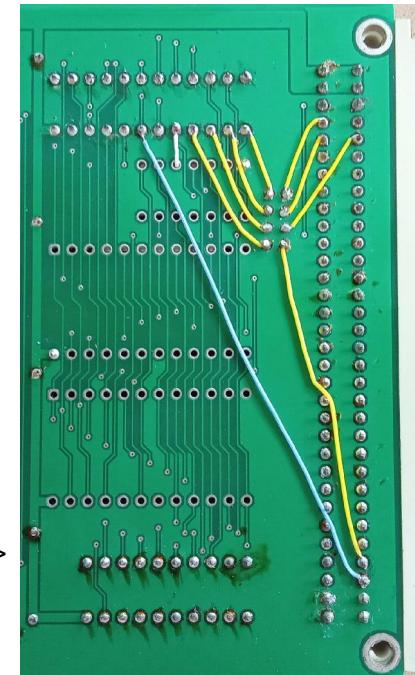
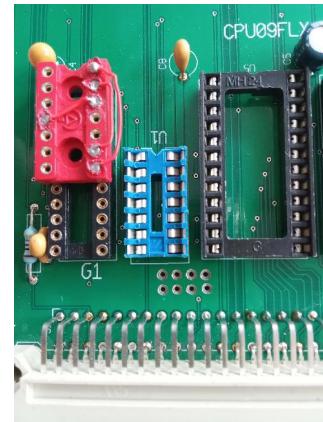
Below show MRDY option for all IO except CPU09RAM and CPU09ID6,

these two work fine on a 5MHz bus.

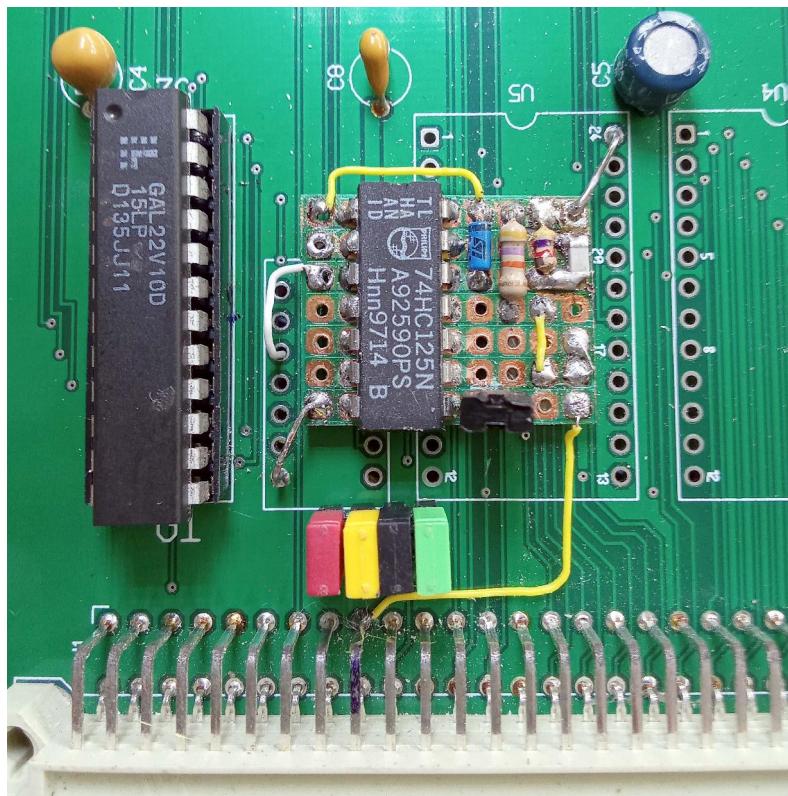
Also the option to use MRDY for the ACIA on the CPU09CMI, see “RUN CPU09CMI at 20Mhz.”.

It will stretch E with $\frac{1}{2}$ or 1 cycle depending on Cx.

The ACIA, DIV3, DIV4, DIV7 are jumper selectable.



Drill 8 holes for the jumper block, remove ground >



Use the print from before, but the wiring is different.

Select Cx for $\frac{1}{2}$ or 1 cycle: 5MHz 27pF $\frac{1}{2}$ cycle is fine
4MHz 47PF $\frac{1}{2}$ cycle.

Use a GAL with internal pull-ups,
parts U1, U4, U5 may not be placed !

MDRY = On jumper

Backplane wiring >

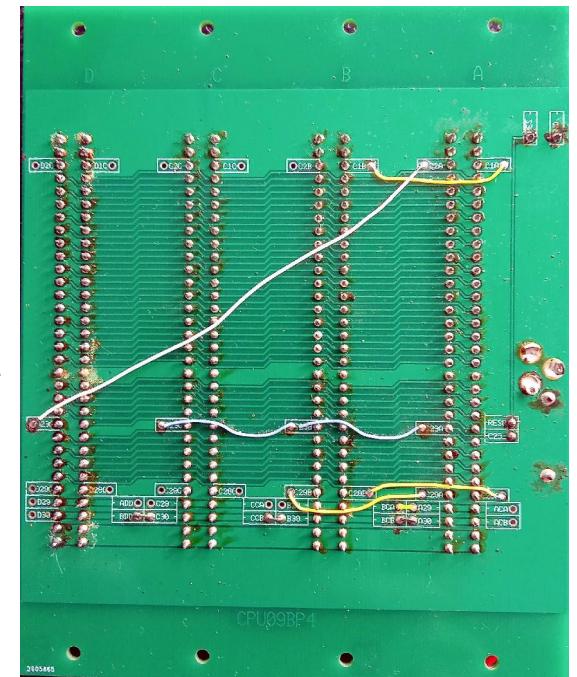
Select for MRDY:

Red = M_ACIA with wire on CPU09CMI.

Yellow = DIV7

Black = DIV3

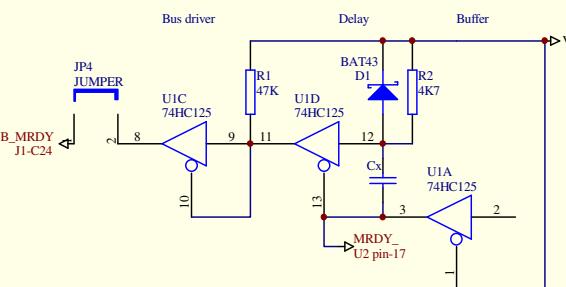
Green = DIV4 with DIV4 jumper on CPU09CMI.



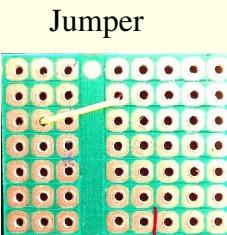
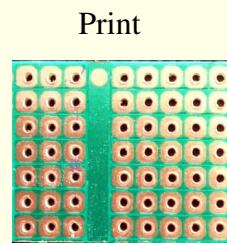
1 2 3 4 5 6

**MRDY for MINFLX and ACIA on CPU09CMI
need G1 - FLX_2**

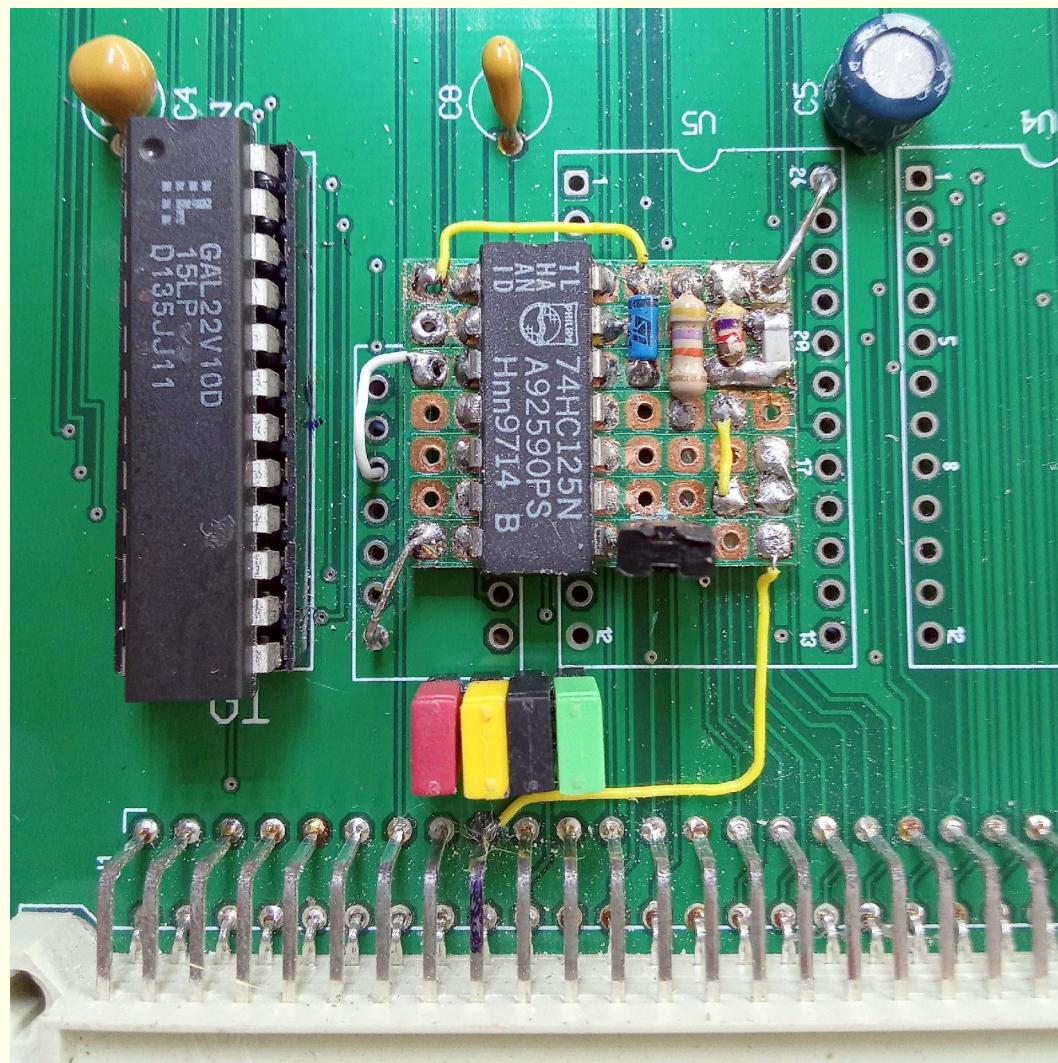
Timing:
 5MHz CPU bus Cx 27pF E=200nsec /E=100nsec FDC 3.3MHz
 5MHz CPU bus Cx 47pF E=300nsec /E=100nsec FDC 2.5MHz



BOM				
# Device	Value	Package type	Refdes	
RES.250W	47K 10%	RES12	R1	
RES.125W	4K7 5%	RES12	R2	
CER CAP	27p 5%	1206 SMD	Cx bus 300nsec	
CER CAP	47p 5%	1206 SMD	Cx bus 400nsec	
DIODE.SCHOTT	BAT43	DIO_DO35	D1	
74HC125	74HC125	DIP14	U1	
HDR1x2	HDR1x2	HDR1x2	J4	
Solder all above parts like SMD.				
GAL22V10	GAL22V10D	SDIP24	U2	
HDR2x4	HDR2x4	HDR2x4	J3	



Jumper



Title		
Size	Number	Revision
B		
Date: 19-Jan-2026	Sheet of	
File: CMISOFLP_MRDYFLXMIN.M.ddb		Drawn By:

1 2 3 4 5 6