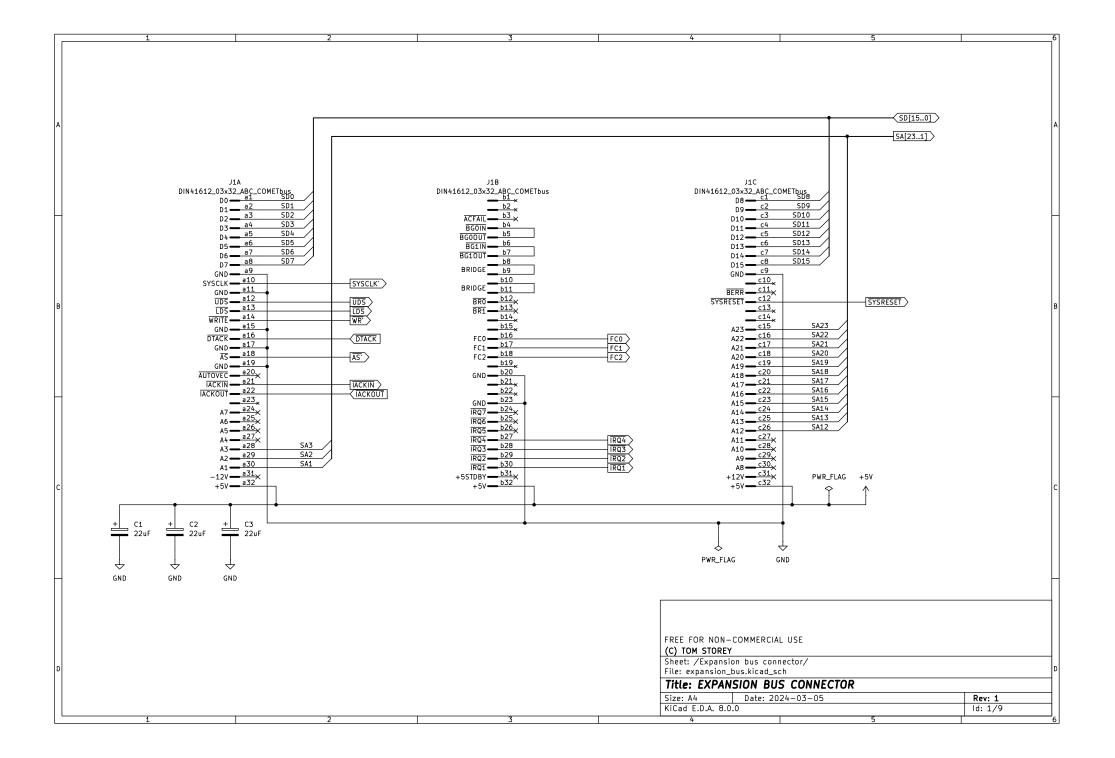
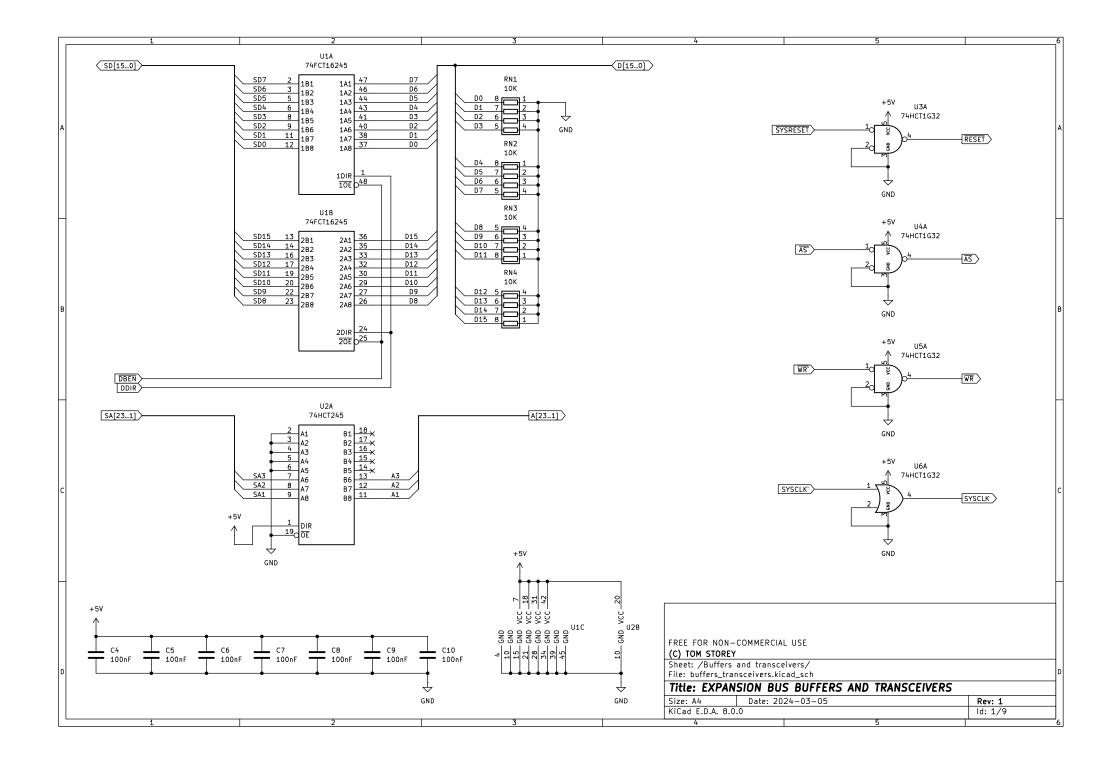
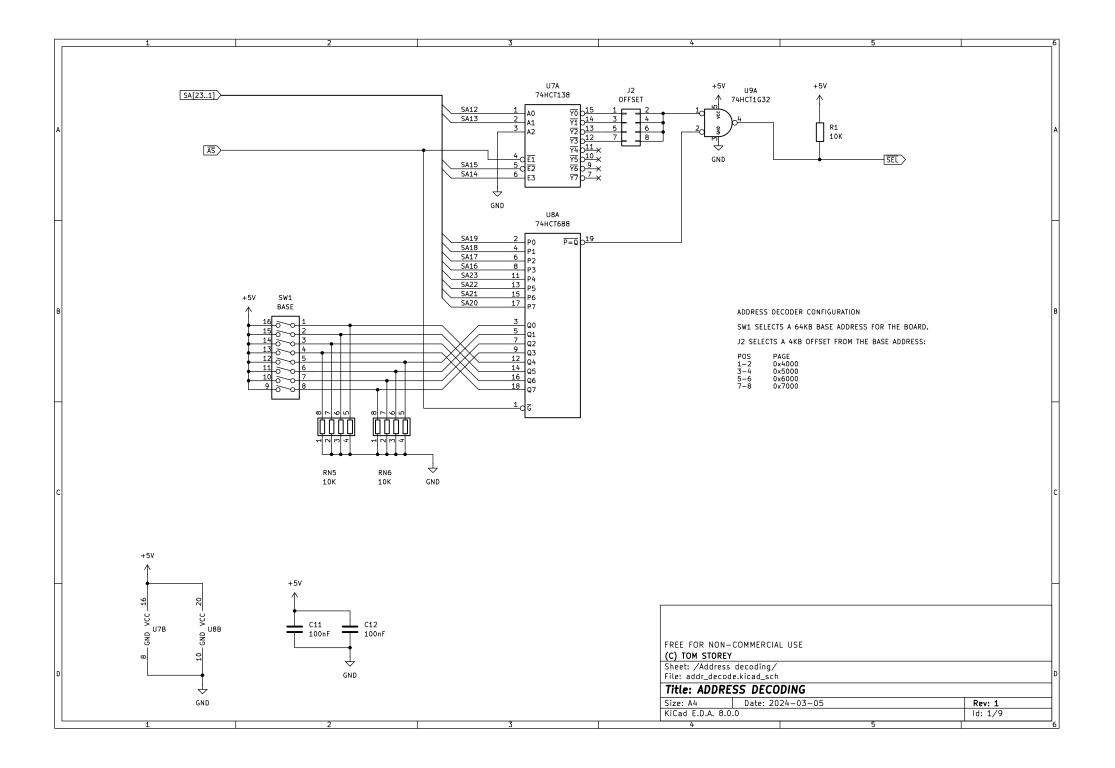
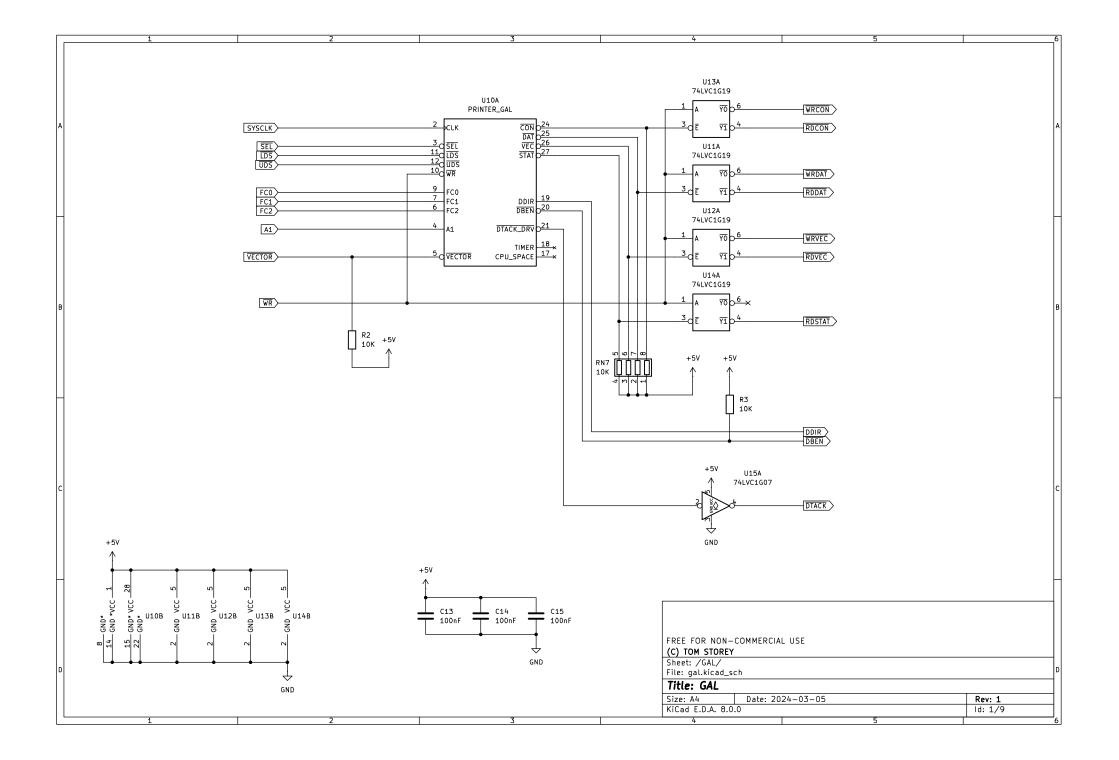
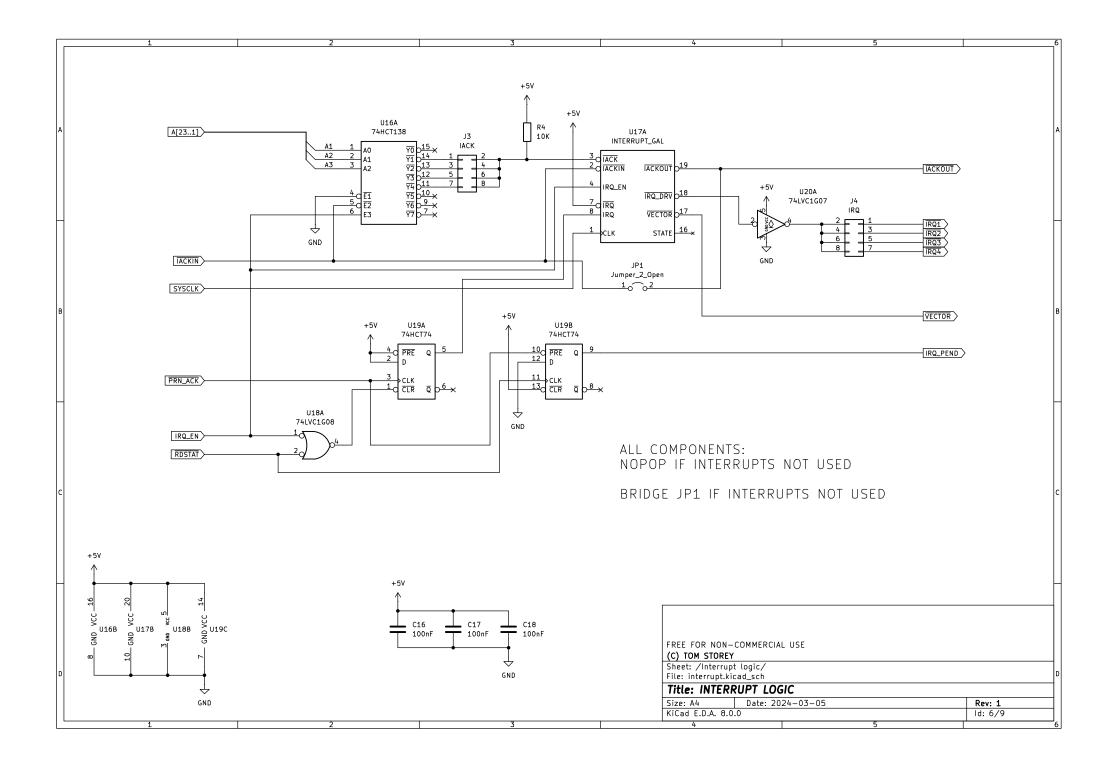
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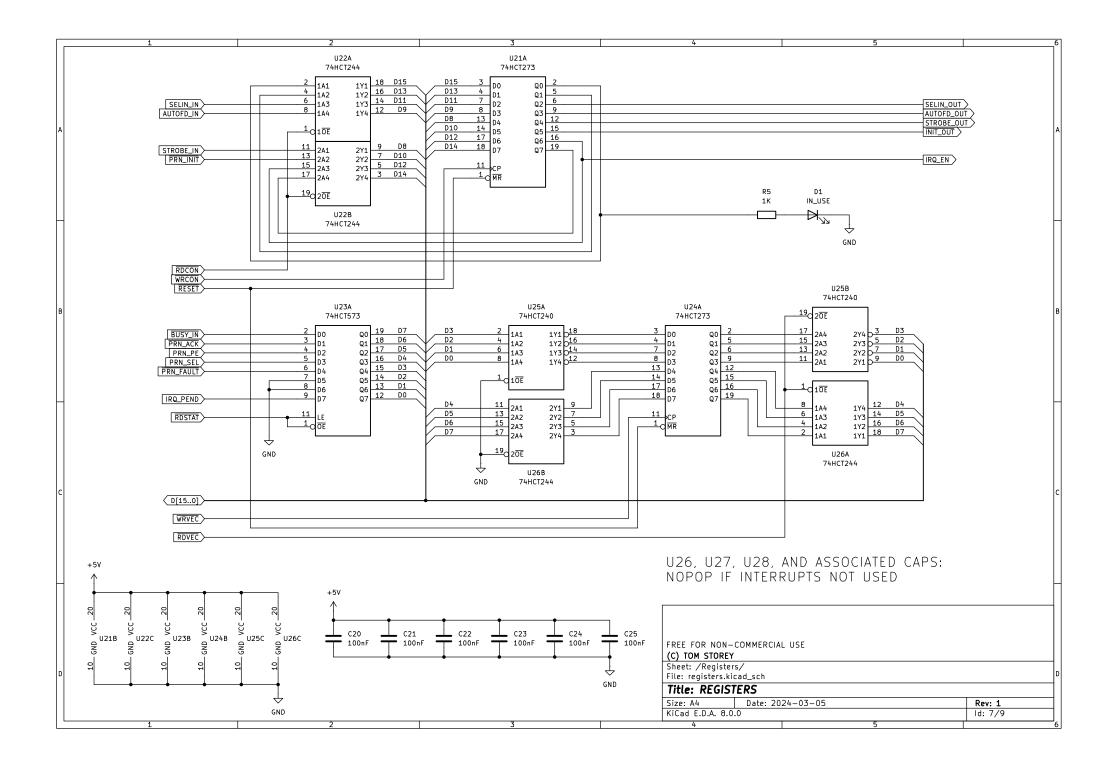


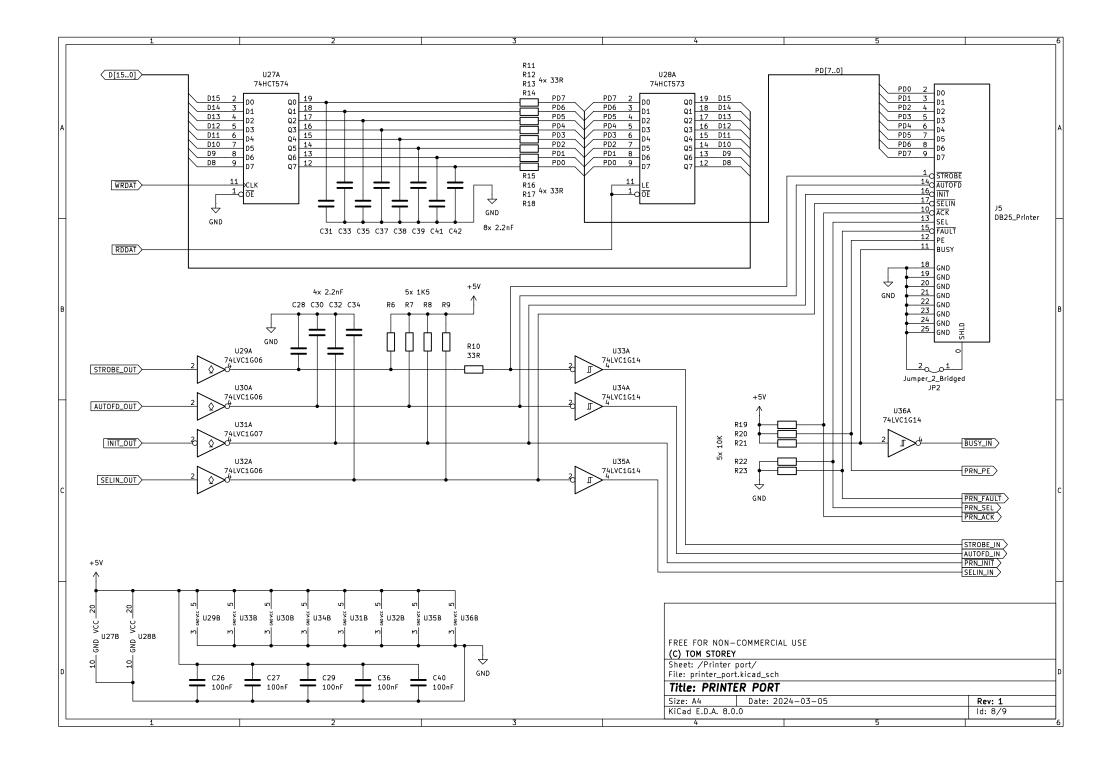












0x0 - DATA PORT

	RW-x	RW-x RW-x RW-x			RW-x	RW-x	RW-x	RW-x	
	D<7:0> BIT 7 BIT								

BIT 7-0 D<7:0>: INPUT/OUTPUT DATA THE DATA PORT IS ALWAYS DRIVING AN OUTPUT VALUE, BUT AN EXTERNAL DEVICE MAY OVERRIDE THE OUTPUT DATA BY DRIVING THE DATA LINES TO AN ALTERNATE STATE.

THE OUTPUT VALUE AT RESET IS INDETERMINATE.

0x1 - INTERRUPT VECTOR

RW-0	RW-0	RW-0	RW-0	RW-1	RW-1	RW-1	RW-1			
VEC<7:0>										
BIT 7 BIT 0										

BIT 7-0 VEC<7:0>: INTERRUPT VECTOR THIS IS THE VECTOR NUMBER THAT IS SUPPLIED TO THE CPU DURING THE INTERRUPT ACKNOWLEDGE CYCLE.

ON RESET, THE VECTOR NUMBER INITIALISES TO 0x0F TO SUPPLY THE "UNINITIALISED INTERRUPT" VECTOR. USER SOFTWARE MUST CONFIGURE AN APPROPRIATE VECTOR NUMBER FOR THE APPLICATION.

0x2 - STATUS REGISTER

R-x	R-x	R-x	R-x	R-x	U-0	U-0	R-x
BUSY	ACK	ERROR	SELECT	FAULT	-	-	IRQ_PEND
BIT 7							BIT 0

BUSY: PRINTER BUSY 1 = PRINTER IS ABLE TO RECEIVE NEW DATA 0 = PRINTER IS NOT READY TO RECEIVE NEW DATA

ACK: TRANSFER ACKNOWLEDGE 1 = SIGNAL IS NEGATED 0 = PRINTER IS ACKNOWLEDGING TRANSFER

> THE FALLING EDGE OF ACK CAUSES THE IRQ_PEND BIT TO BE SET. THE RISING EDGE OF ACK CAUSES AN INTERRUPT REQUEST TO BE GENERATED AS LONG AS THE IRQ_EN BIT OF THE CONTROL REGISTER IS SET.

ERROR: PAPER ERROR 1 = PRINTER IS EXPERIENCING AN ERROR IN THE PAPER PATH 0 = NO ERROR CONDITION EXISTS

SELECT: PRINTER ONLINE INDICATOR 1 = PRINTER IS ONLINE 0 = PRINTER IS NOT ONLINE

FAULT: PRINTER FAULT INDICATOR 1 = NO FAULT CONDITION EXISTS 0 = PRINTER IS EXPERIENCING A FAULT

BIT 2-1 UNIMPLEMENTED

IRQ_PEND: INTERRUPT PENDING 1 = AN INTERRUPT IS CURRENTLY PENDING FOR THIS INTERFACE 0 = NO INTERRUPT PENDING

IRQ_PEND REMAINS SET AS LONG AS THE $\overline{\text{ACK}}$ SIGNAL IS ASSERTED, AND IS CLEARED BY READING THE STATUS REGISTER ONCE $\overline{\text{ACK}}$ IS NEGATED.

R = READABLE -n = VALUE AT RESET 1 = SET

W = WRITABLE

U = UNIMPLEMENTED

0 = CLEAREDx = UNKNOWN 0x3 - CONTROL REGISTER

RW-0	U-0	U-0	RW-0	RW-0	RW-0	RW-0	RW-0
IN_USE	-	-	IRQ_EN	SELIN	INIT	AUTOFD	STROBE
BIT 7							BIT 0

IN_USE: IN USE LED CONTROL

BIT 6-5 UNIMPLEMENTED

IRQ_EN: INTERRUPT REQUEST ENABLE

1 = INTERRUPT WILL BE GENERATED ON THE RISING EDGE OF ACK
0 = INTERRUPTS ARE DISABLED.

WHEN IRQ_EN IS CLEARED. INTERRUPT REQUESTS ARE INHIBITED BUT THE IRQ_PEND BIT OF THE STATUS REGISTER WILL STILL REFLECT PENDING

INTERRUPT CONDITIONS. CLEARING IRQ EN WHILE AN INTERRUPT
REQUEST IS PENDING WILL CANCEL THE INTERRUPT REQUEST BUT DOES NOT CLEAR THE IRQ_PEND BIT OF THE STATUS REGISTER.

SELIN: PRINTER SELECT 1 = PRINTER IS SELECTED 0 = PRINTER IS NOT SELECTED

INIT: PRINTER RESET

1 = PRINTER IS IN NORMAL OPERATION

0 = PRINTER IS IN RESET CONDITION

AUTOFD: AUTOMATIC LINE-FEED MODE BIT 1 1 = ENABLE AUTOMATIC LINE-FEED MODE 0 = DISABLE AUTOMATIC LINE-FEED MODE

STROBE: DATA TRANSFER STROBE 1 = ASSERT STROBE TOWARDS PRINTER TO LATCH DATA

0 = SIGNAL IS NEGATED

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Sheet: /Register documentation/

File: reg_doc.kicad_sch

Title: REGISTER DOCUMENTATION

Size: A4 Date: 2024-03-05 Rev: 1 KiCad E.D.A. 8.0.0 ld: 9/9