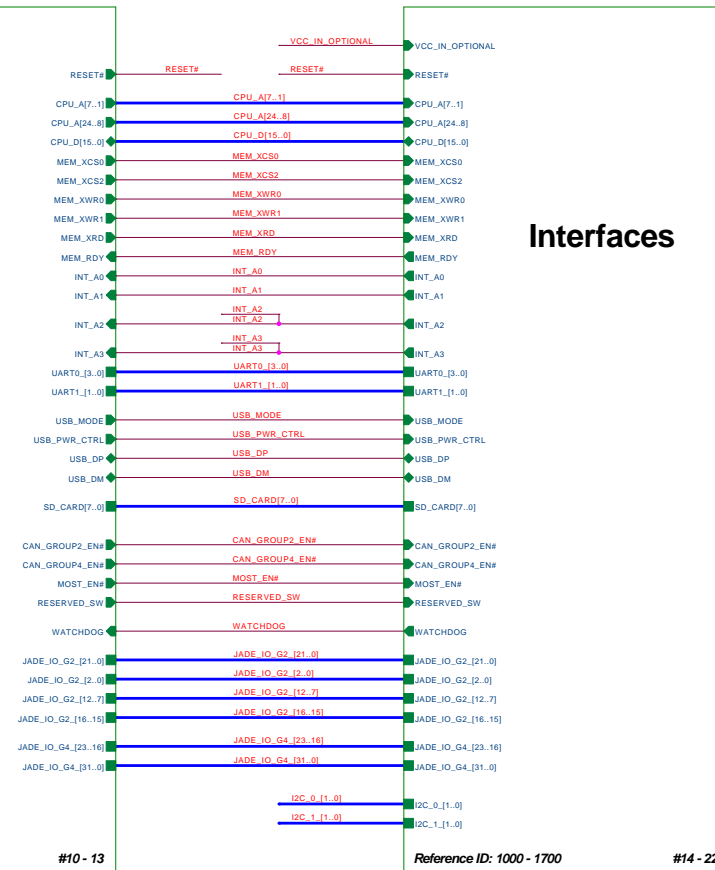
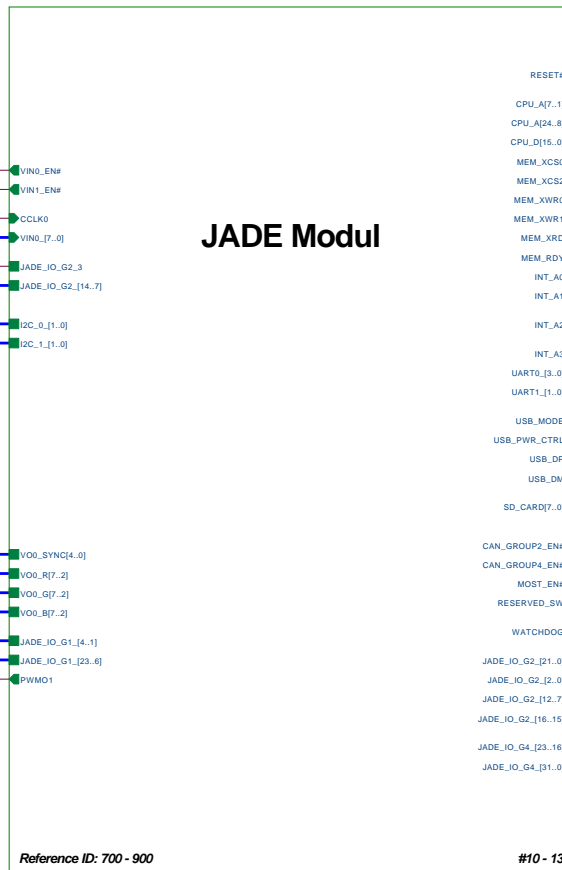
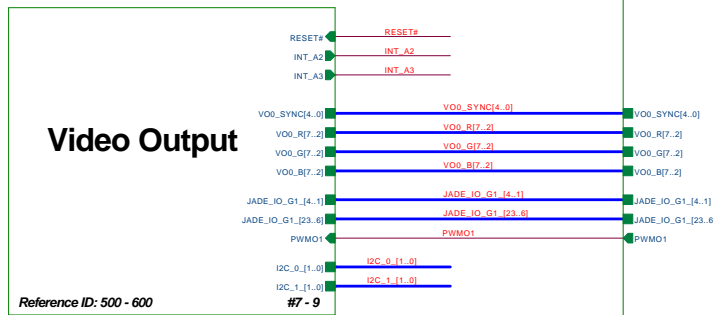
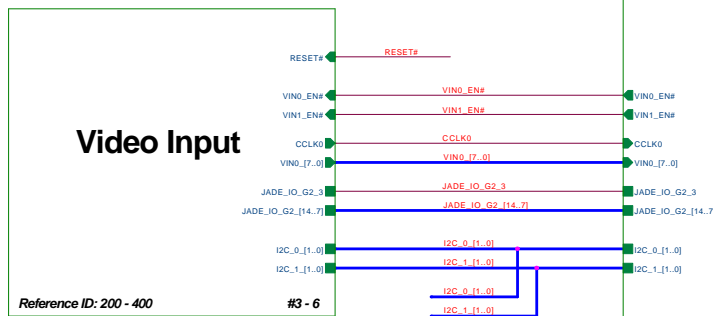
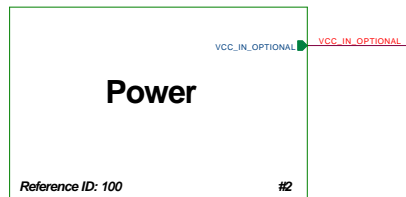


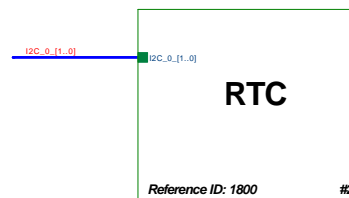
JADE Evaluation Board

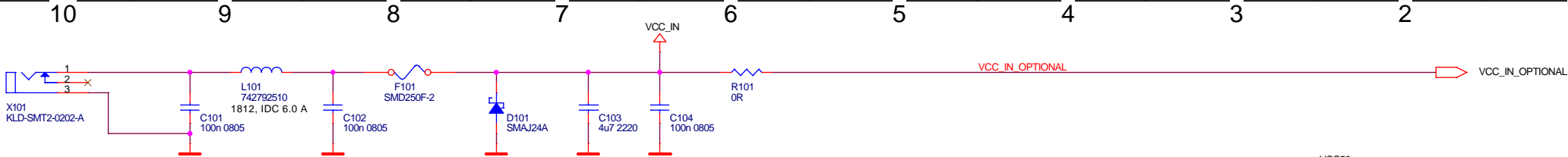
Revision: PA5



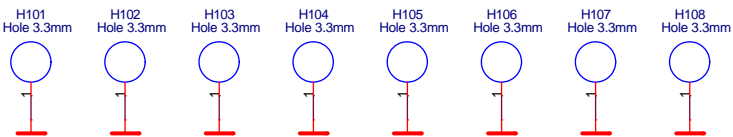
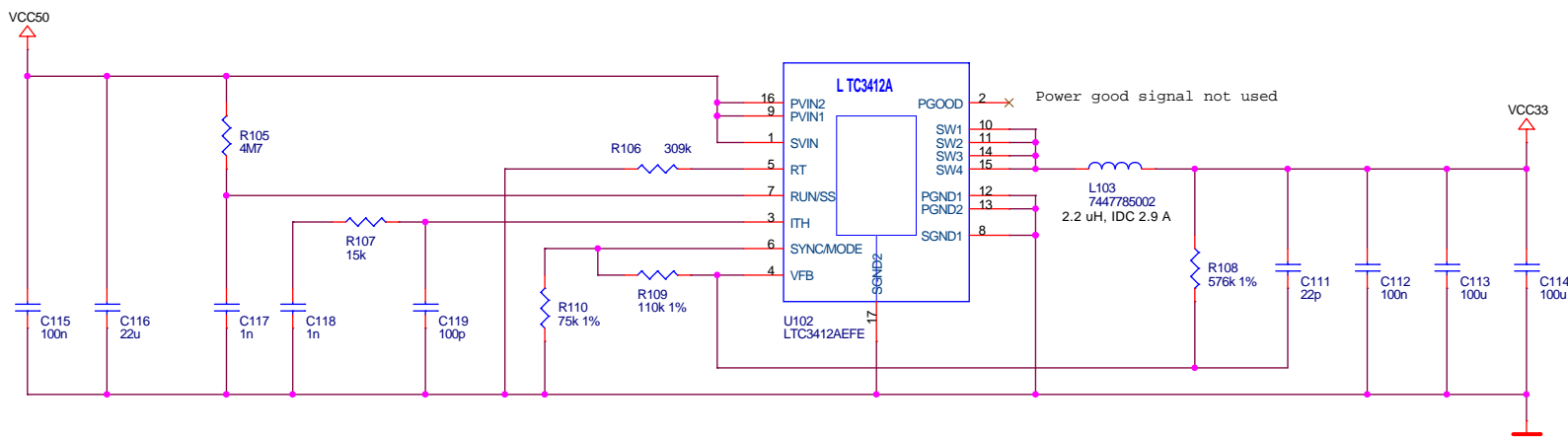
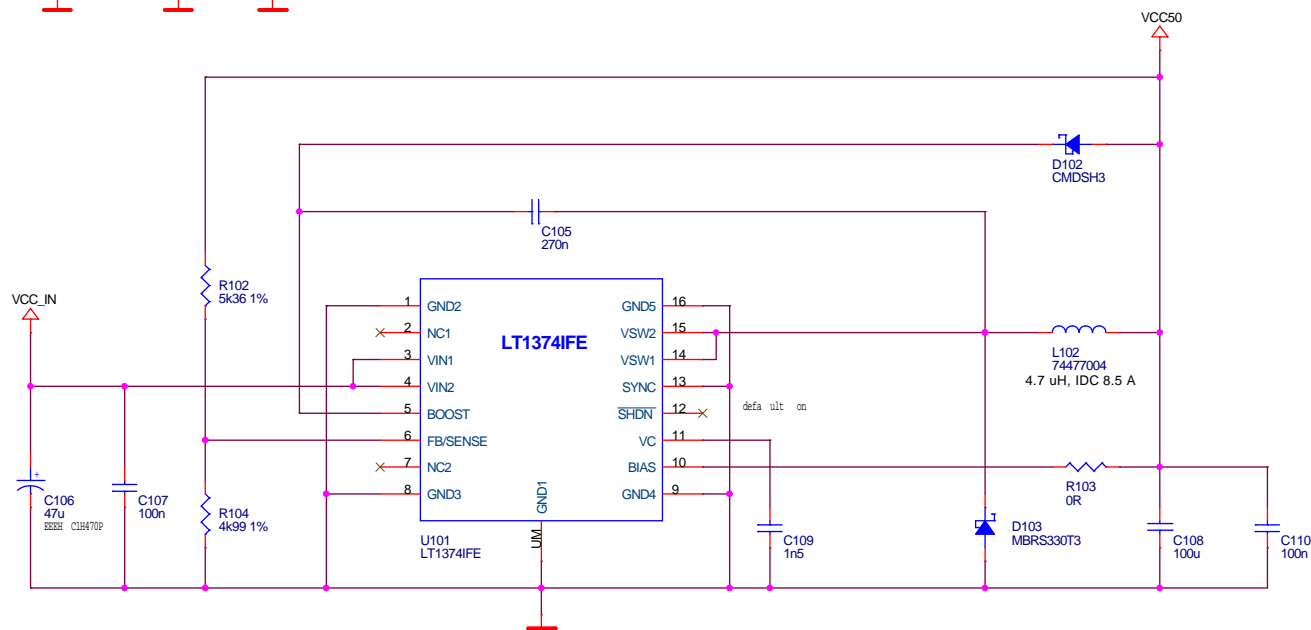
Hierarchy	Part References
+++ #1 JADE Evaluation Board Top	
+++ #2 Power	1xx
+++ #3 Video Input	
+++ #4 Video Input 0	2xx
+++ #5 Video Input 1	3xx
+++ #6 Video Multiplexer	4xx
+++ #7 Video Output	
+++ #8 Video Output 0	5xx
+++ #9 Video Output 1	6xx
+++ #10 JADE Modul	
+++ #11 CPU signals side	7xx
+++ #12 IO signals side	8xx
+++ #13 Configuration & EJTAG	9xx

Hierarchy	Part References
+++ #14 Interfaces	
+++ #15 CAN	10xx
+++ #16 Ethernet	11xx
+++ #17 Extension	12xx
+++ #18 UART	13xx
+++ #19 MOST	14xx
+++ #20 SD Card	15xx
+++ #21 USB	16xx
+++ #22 Inputs Outputs	17xx
+++ #23 RTC	18xx





Input voltage range
6.0 V ... 24 V DC
4.5 A

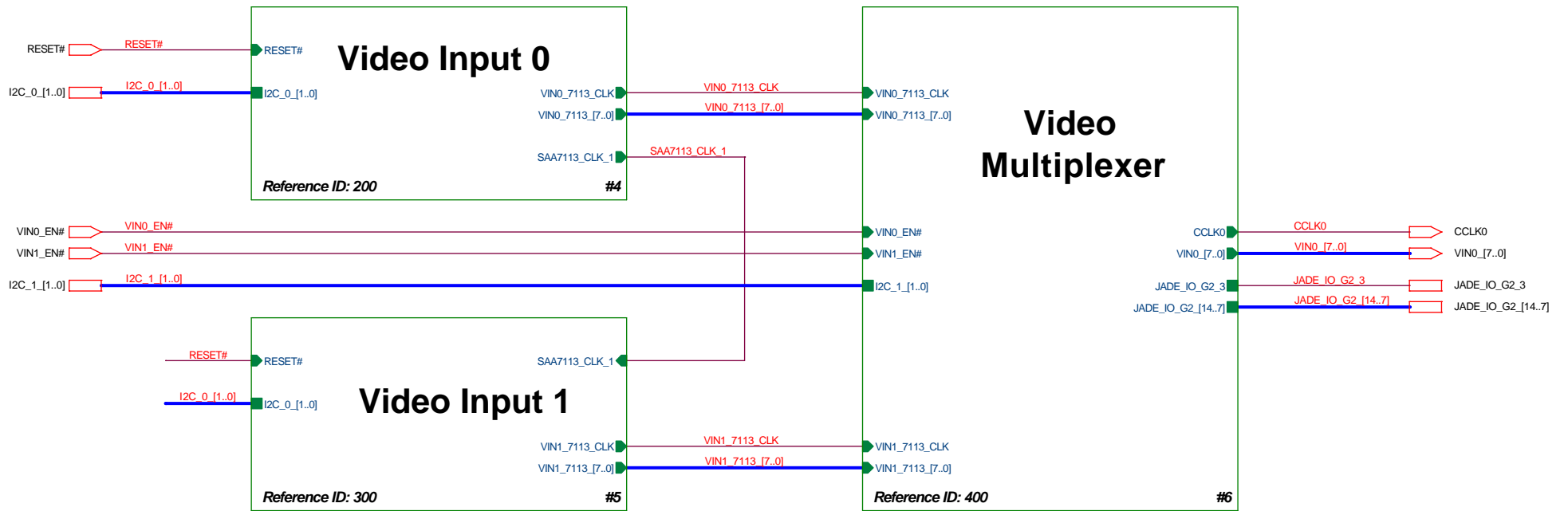


outer diameter 7 mm

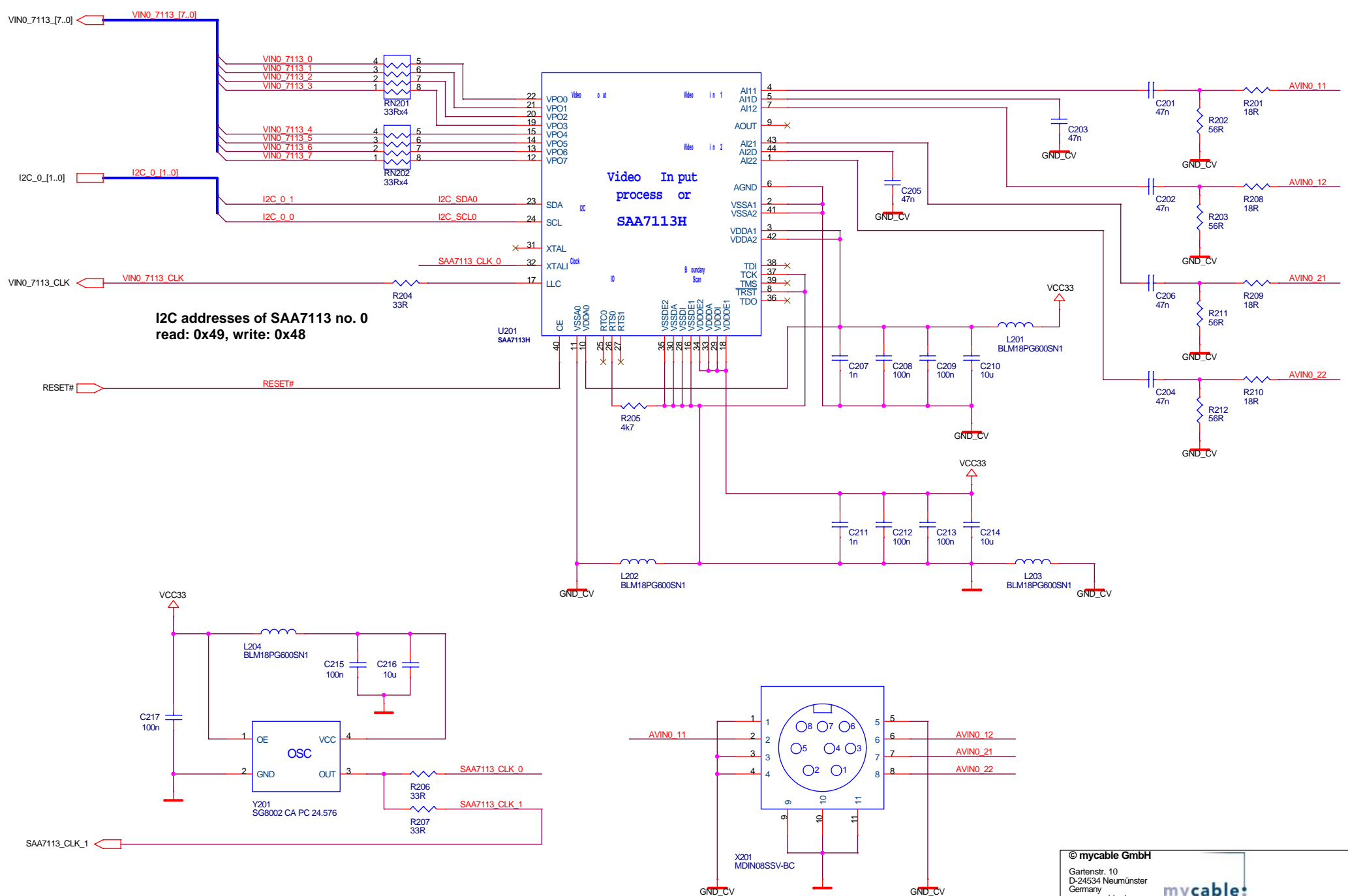
10 9 8 7 6 5 4 3 2 1

H
G
F
E
D
C
B
A

H
G
F
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D
C
B
A

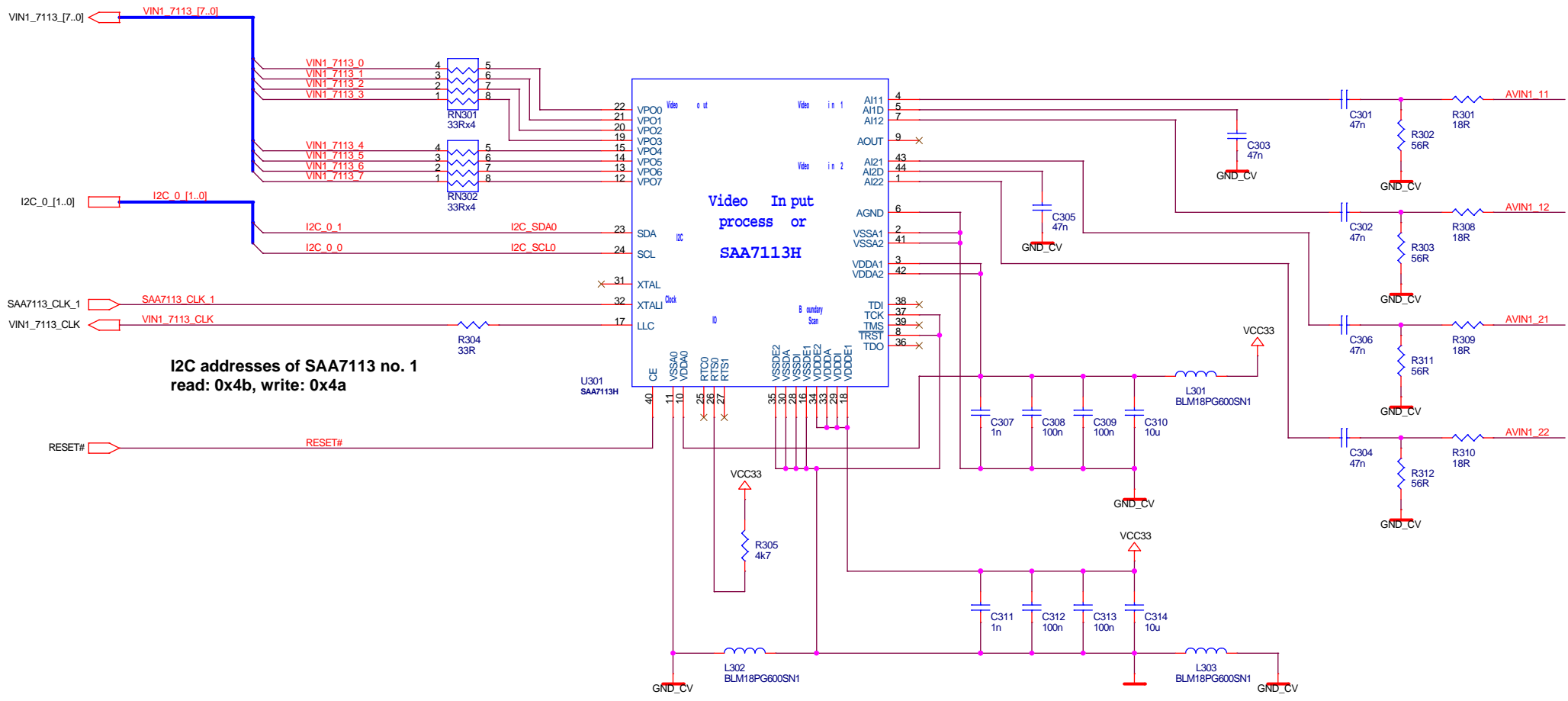


10 9 8 7 6 5 4 3 2 1

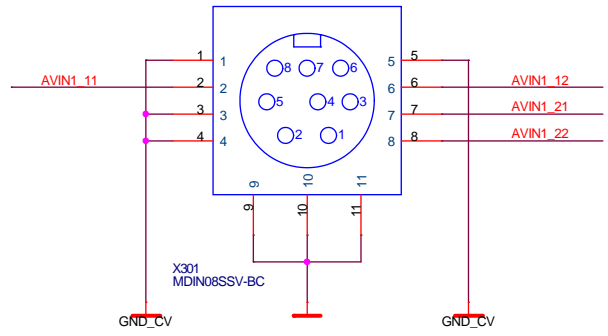


Analog Video Inputs 0

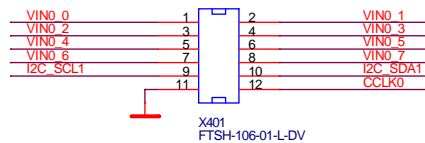
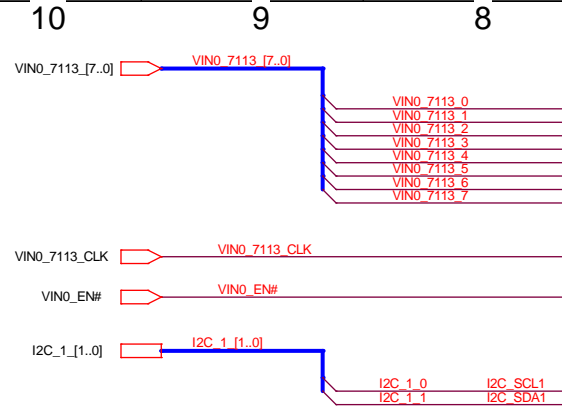
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Title Fujitsu JADE Evaluation Board: Video Input 0		
Size A3	Document Number 30 300 000	Rev PA6
Date: Monday, January 28, 2008	Sheet 4	of 23



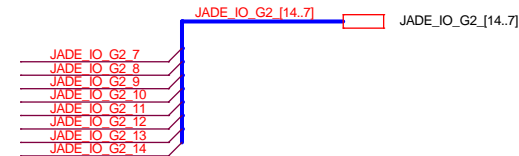
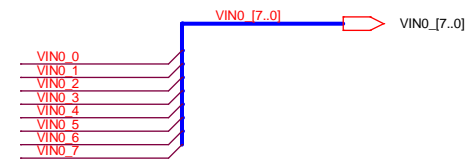
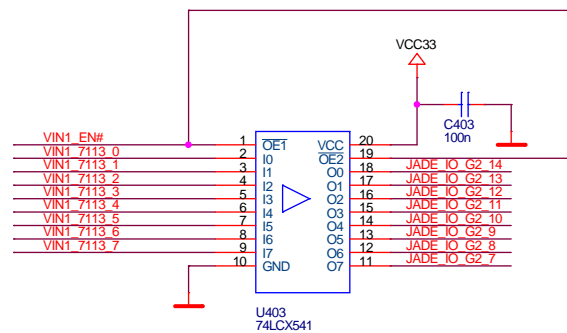
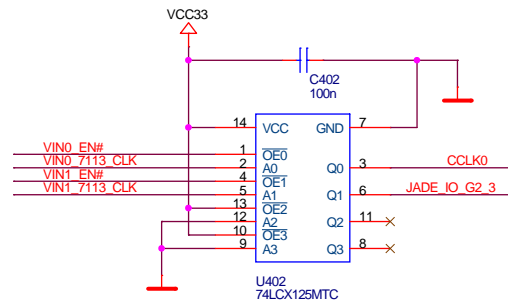
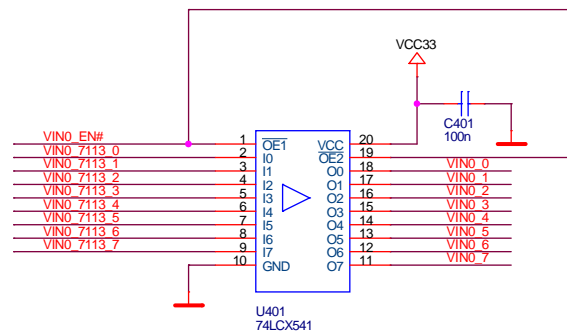
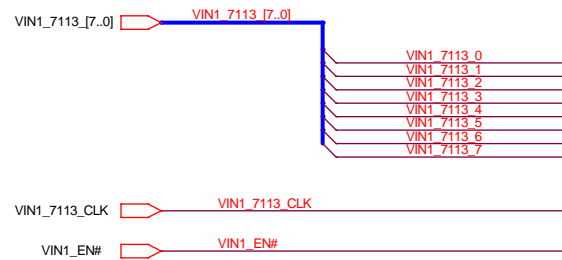
I2C addresses of SAA7113 no. 1
read: 0x4b, write: 0x4a

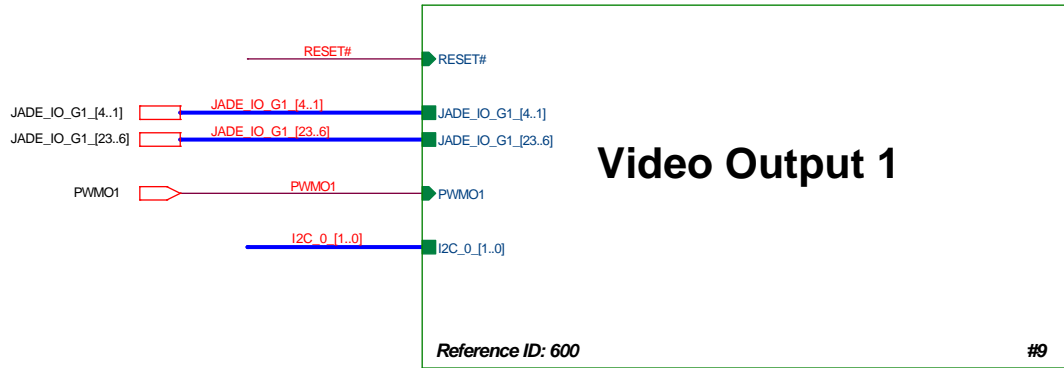


Analog Video Inputs 1



CCIR656 connector





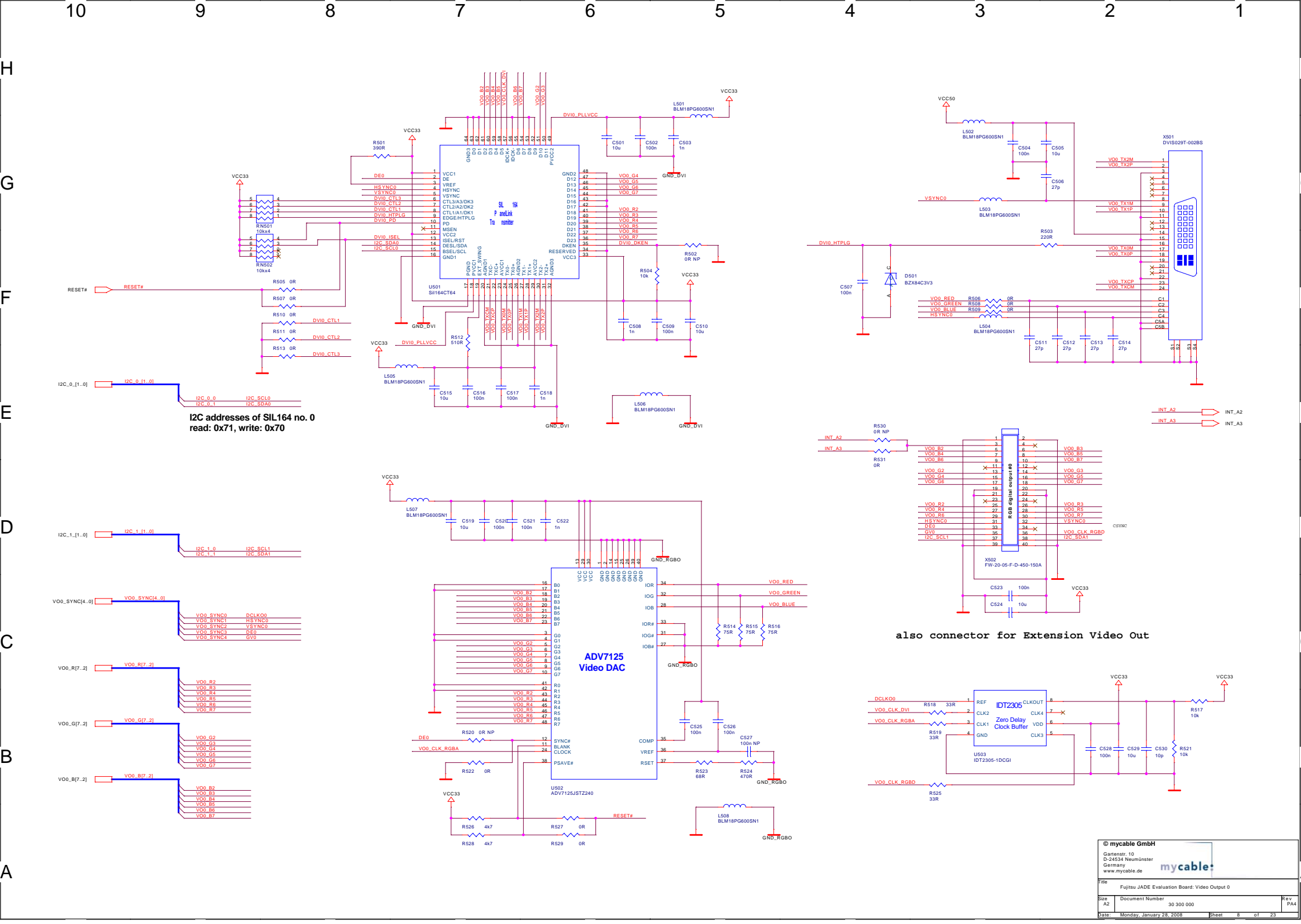
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Title Fujitsu JADE Evaluation Board: Video Output

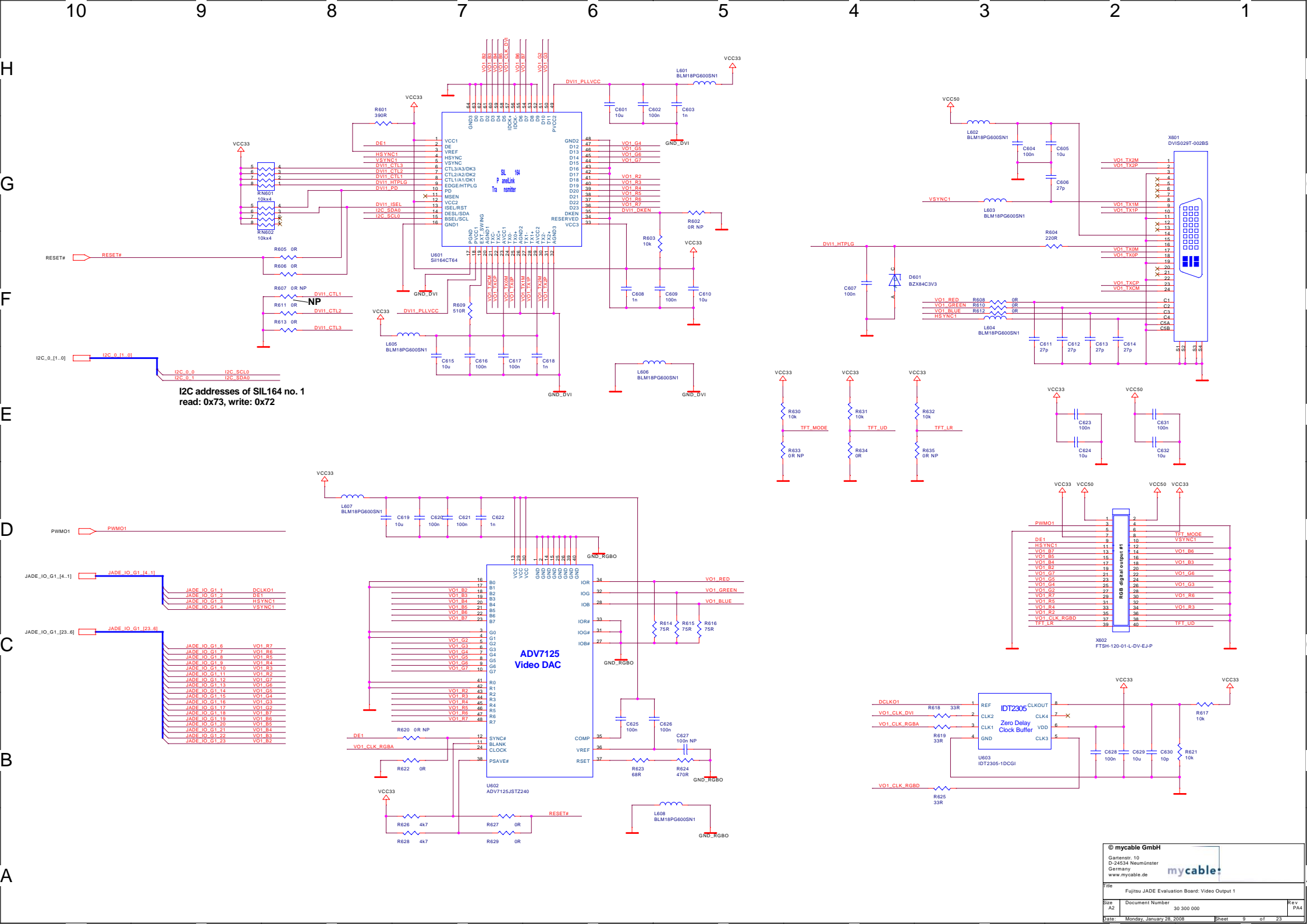
Size A3	Document Number 30 300 000	Rev PA4
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Date: Monday, January 28, 2008 Sheet 7 of 23

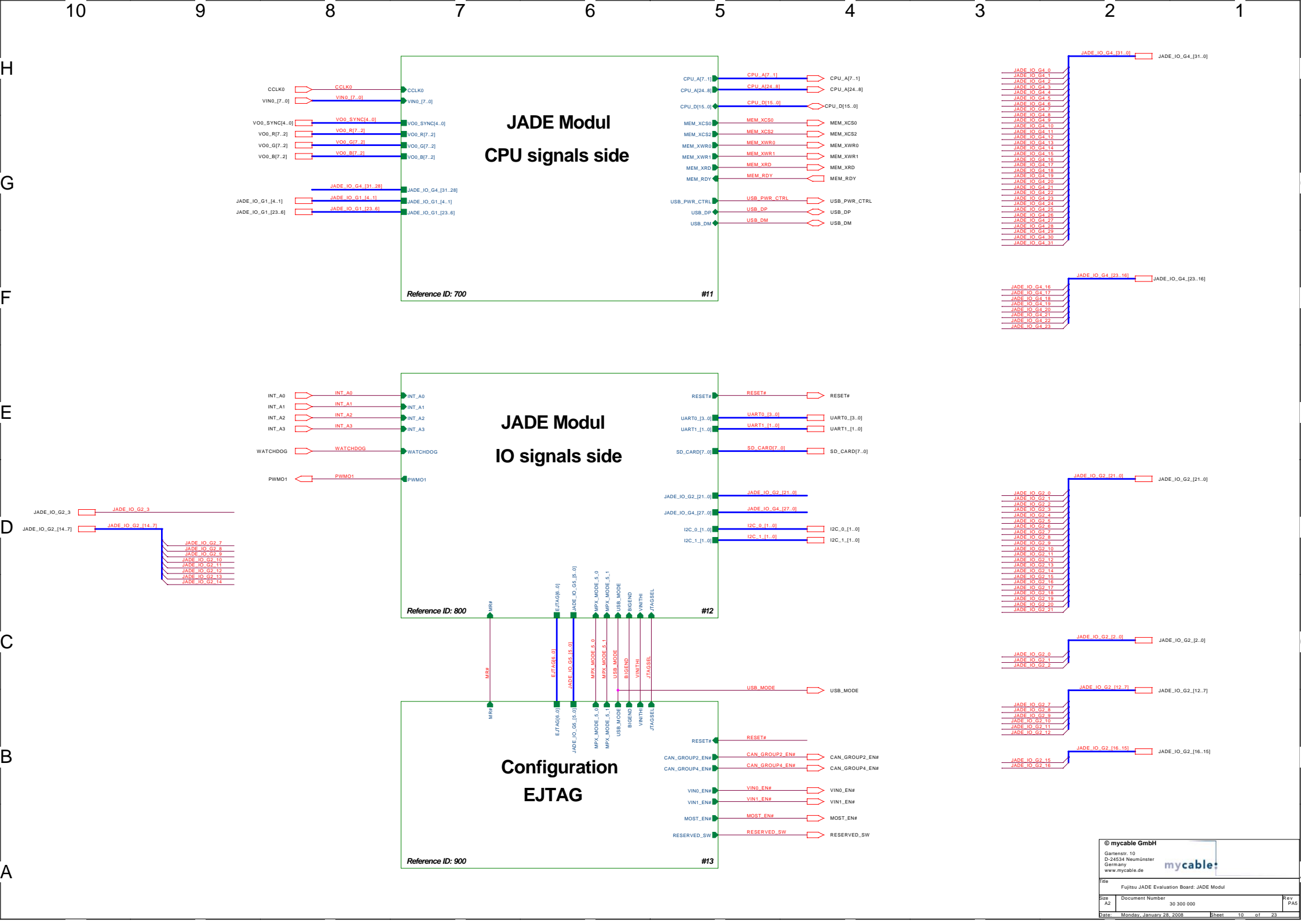


I2C addresses of SIL164 no. 0
read: 0x71, write: 0x70

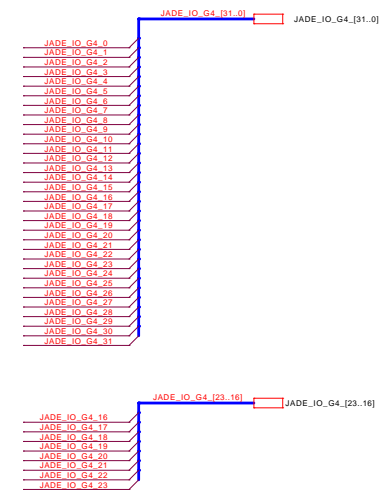
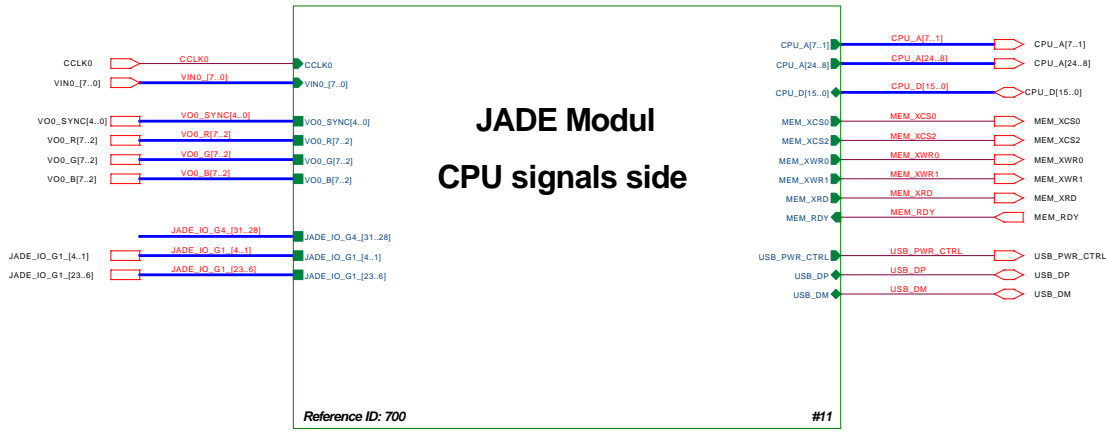
also connector for Extension Video Out



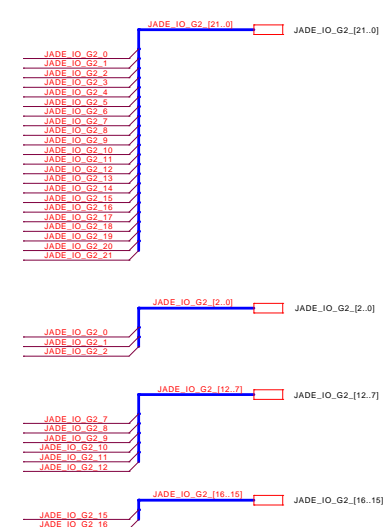
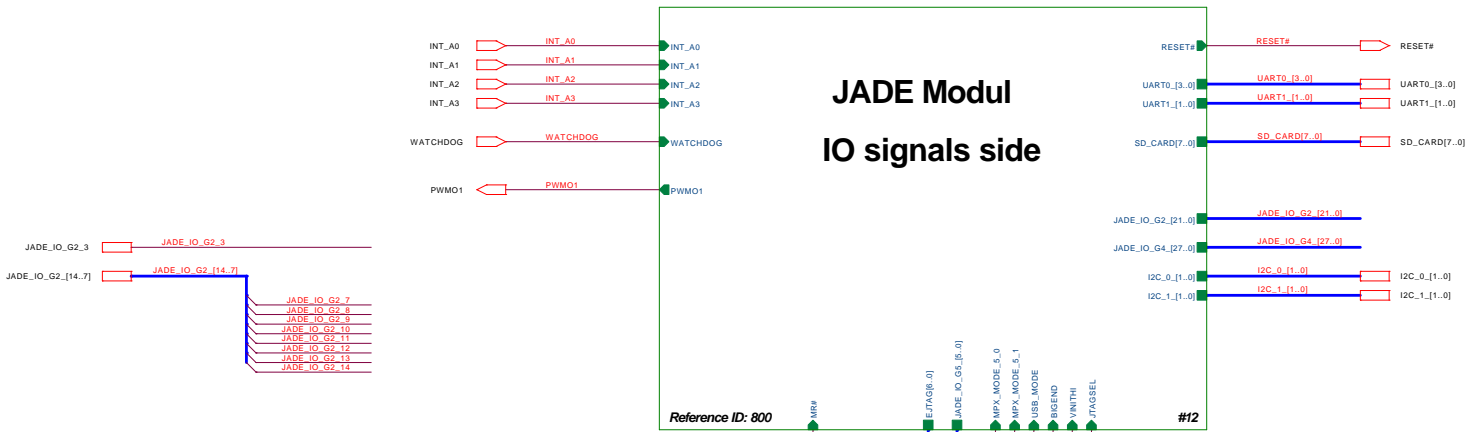
I2C addresses of SIL164 no. 1
read: 0x73, write: 0x72



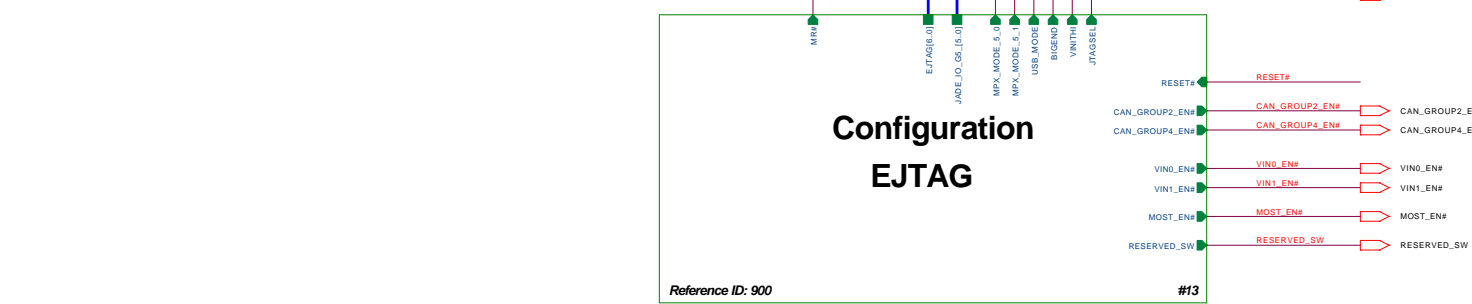
JADE Modul CPU signals side

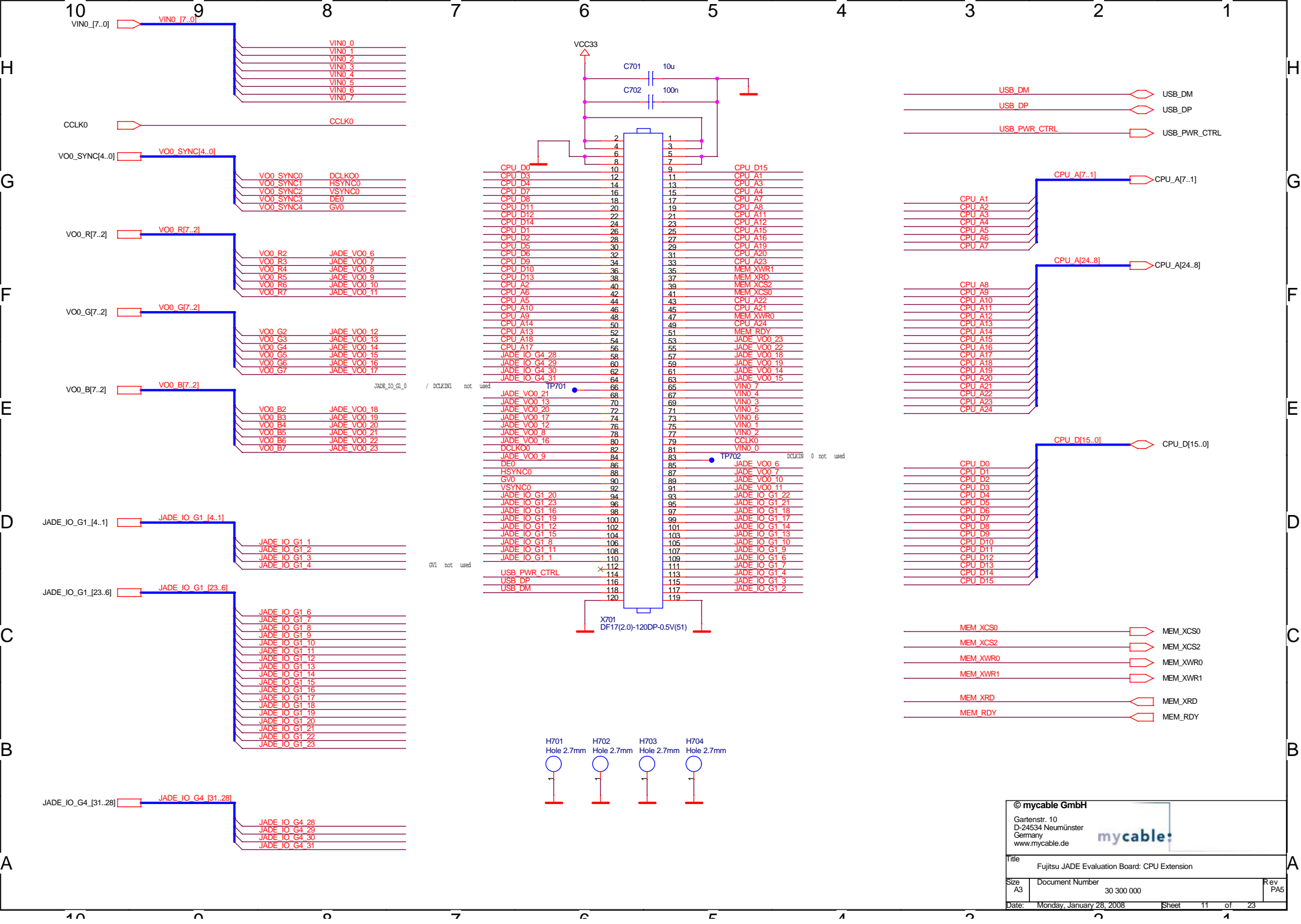


JADE Modul IO signals side

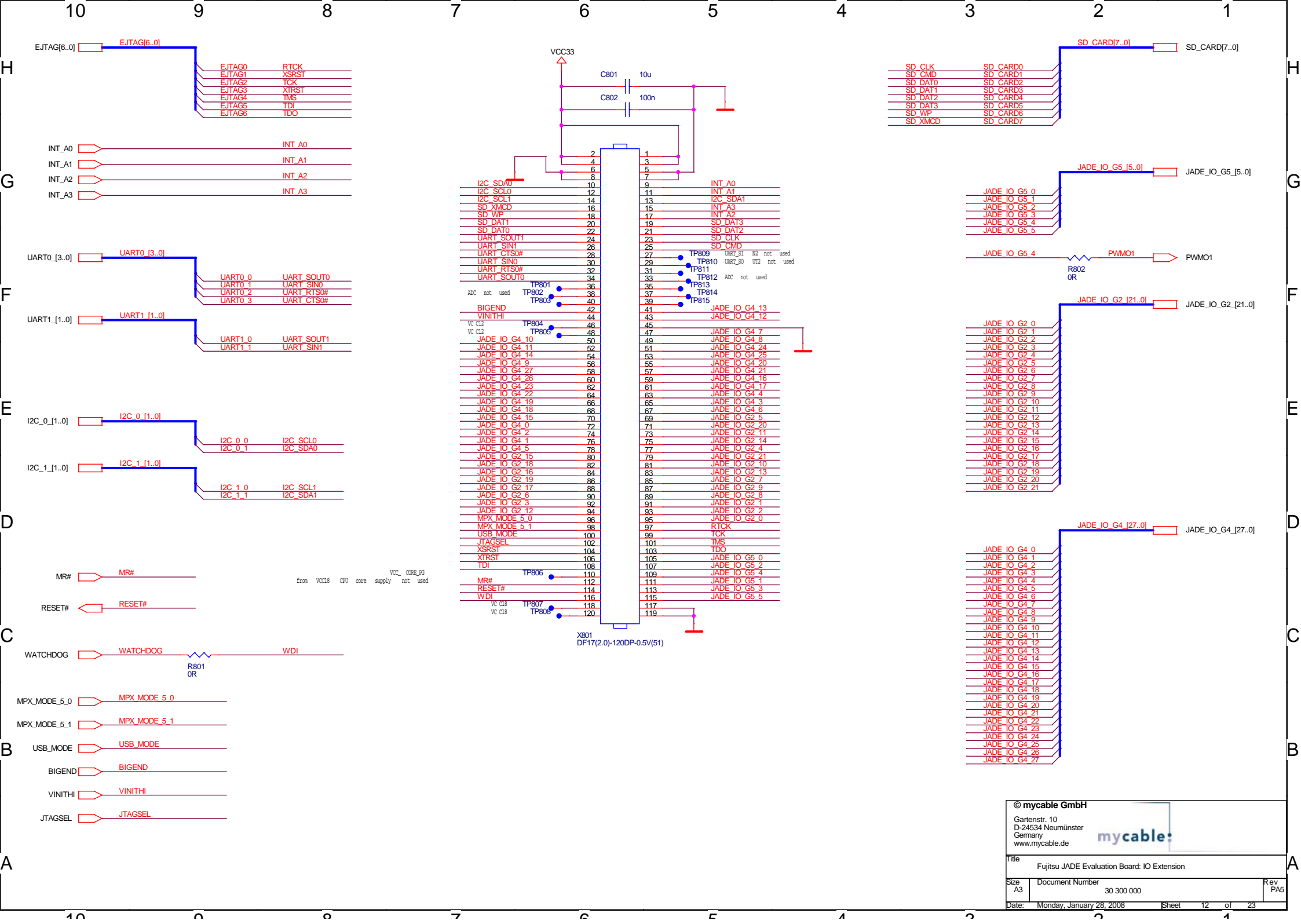


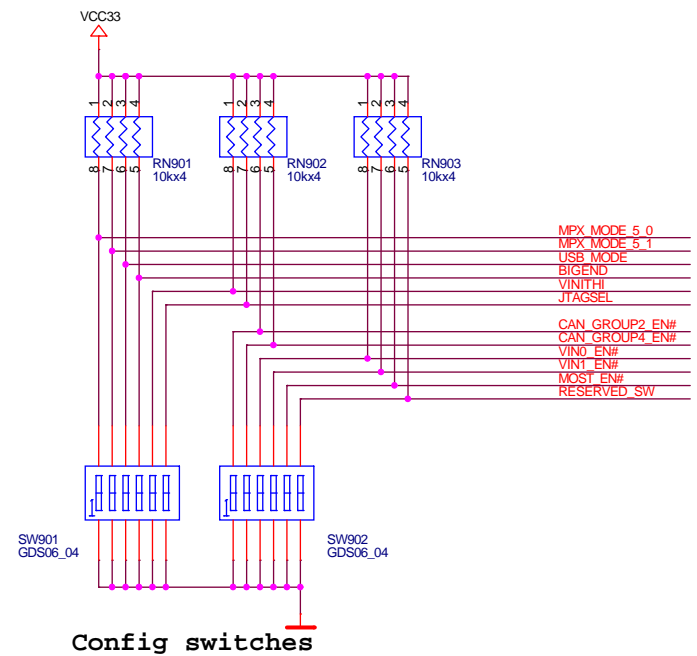
Configuration EJTAG



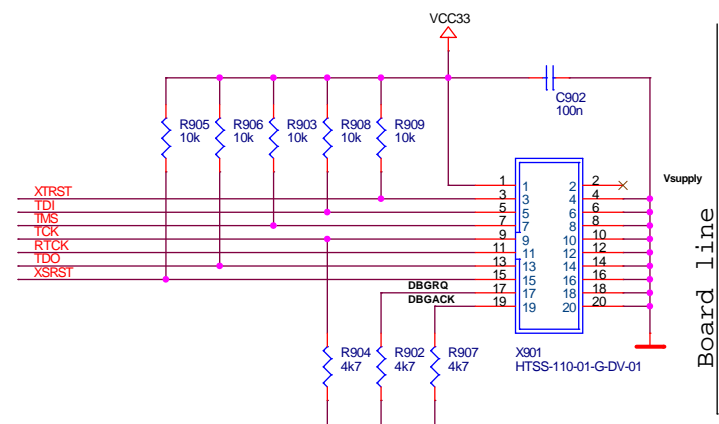
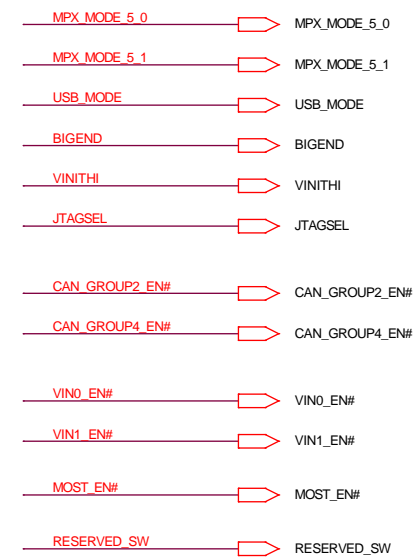


CPU D0	1	CPU A1	9
CPU D3	10	CPU A3	11
CPU D4	12	CPU A4	13
CPU D7	14	CPU A7	15
CPU D8	16	CPU A8	17
CPU D11	18	CPU A11	19
CPU D12	20	CPU A12	21
CPU D14	22	CPU A15	23
CPU D1	24	CPU A16	26
CPU D2	26	CPU A19	27
CPU D5	28	CPU A20	28
CPU D6	30	CPU A23	29
CPU D9	32	MEM_XWR1	31
CPU D10	34	MEM_XRD	33
CPU D13	36	MEM_XCS2	35
CPU A2	38	MEM_XCS0	37
CPU A6	40	CPU A22	39
CPU A5	42	CPU A21	41
CPU A10	44	MEM_XWR0	43
CPU A9	46	CPU A14	45
CPU A14	48	MEM_RDY	47
CPU A13	50	JADE VOO 23	49
CPU A18	52	JADE VOO 22	51
CPU A17	54	JADE VOO 19	53
JADE IO G4 28	56	JADE VOO 18	55
JADE IO G4 29	58	JADE VOO 17	57
JADE IO G4 30	60	JADE VOO 16	59
JADE IO G4 31	62	JADE VOO 15	61
JADE VOO 21	64	VINO 7	63
JADE VOO 13	66	VINO 4	65
JADE VOO 17	68	VINO 3	67
JADE VOO 20	70	VINO 5	69
JADE VOO 12	72	VINO 6	71
JADE VOO 8	74	VINO 1	73
JADE VOO 16	76	VINO 2	75
DCLK00	78	CCLK0	77
JADE VOO 9	80	VINO 0	79
DE0	82	JADE VOO 6	81
HSYNC0	84	JADE VOO 7	83
GV0	86	JADE VOO 10	85
VSYNC0	88	JADE VOO 11	87
JADE IO G1 20	90	JADE IO G1 22	89
JADE IO G1 23	92	JADE IO G1 21	91
JADE IO G1 16	94	JADE IO G1 18	93
JADE IO G1 19	96	JADE IO G1 17	95
JADE IO G1 12	98	JADE IO G1 14	97
JADE IO G1 15	100	JADE IO G1 13	99
JADE IO G1 8	102	JADE IO G1 10	101
JADE IO G1 11	104	JADE IO G1 9	103
JADE IO G1 1	106	JADE IO G1 6	105
JADE IO G1 3	108	JADE IO G1 7	107
JADE IO G1 4	110	JADE IO G1 4	109
JADE IO G1 6	112	JADE IO G1 3	111
JADE IO G1 7	114	JADE IO G1 2	113
JADE IO G1 10	116	JADE IO G1 1	115
JADE IO G1 11	118	USB PWR_CTRL	117
JADE IO G1 12	120	USB DP	118
JADE IO G1 13		USB DM	119
JADE IO G1 14			
JADE IO G1 15			
JADE IO G1 16			
JADE IO G1 17			
JADE IO G1 18			
JADE IO G1 19			
JADE IO G1 20			
JADE IO G1 21			
JADE IO G1 22			
JADE IO G1 23			



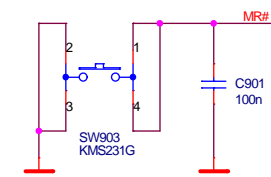


Config switches

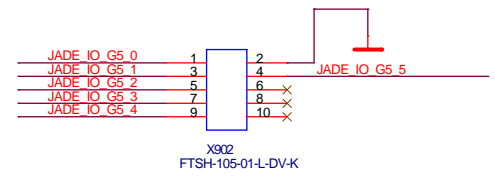
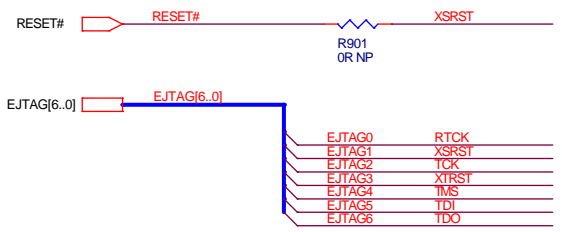


JTAG interface connector

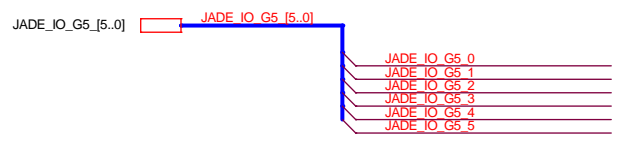
Change this connector because ICE connector is too big

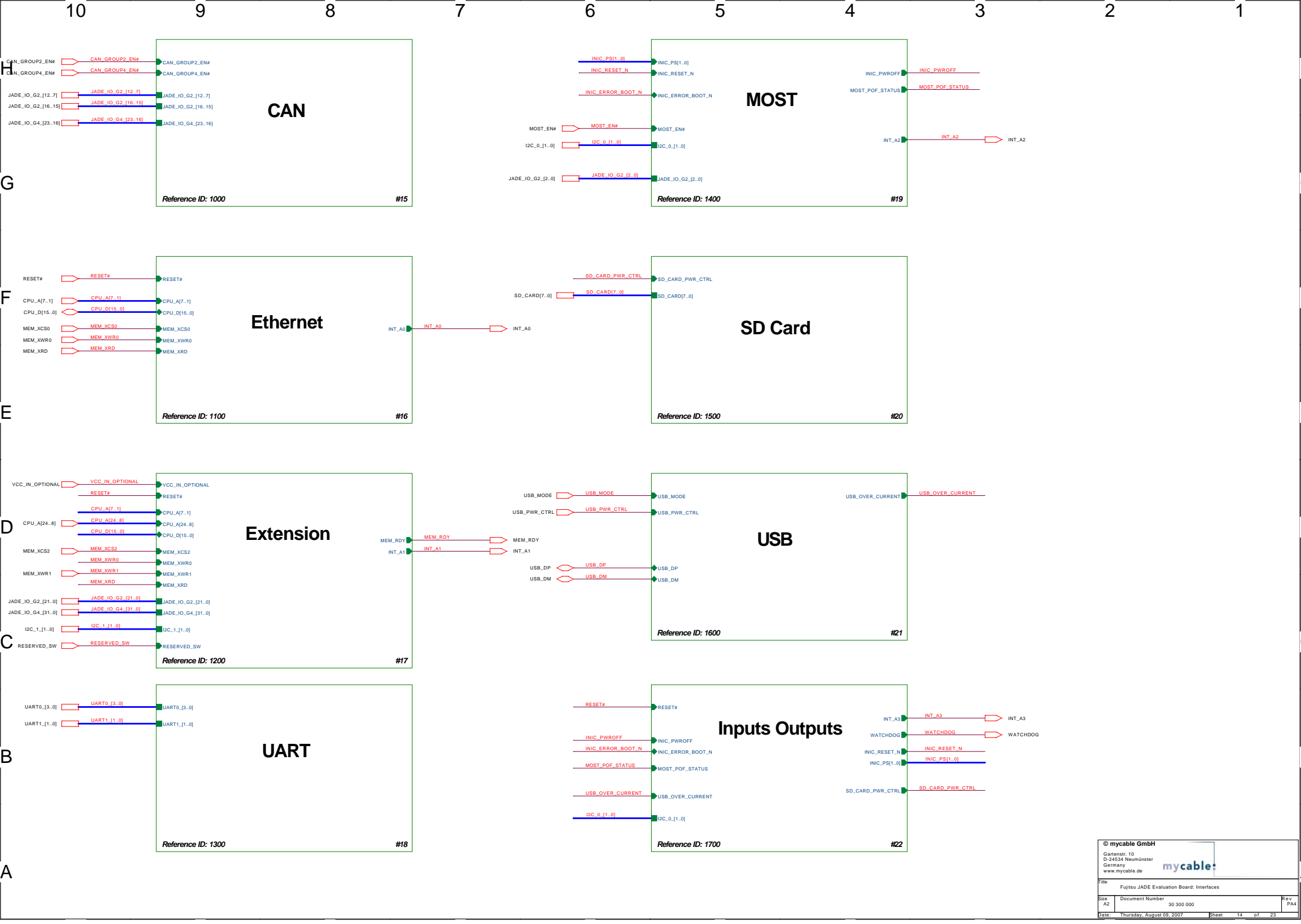


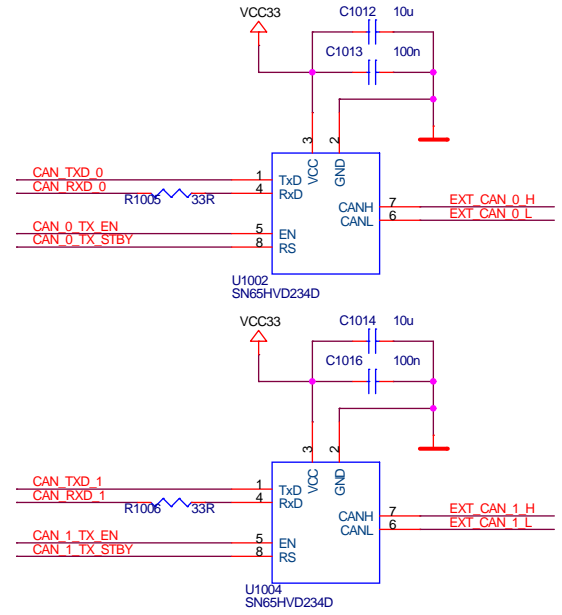
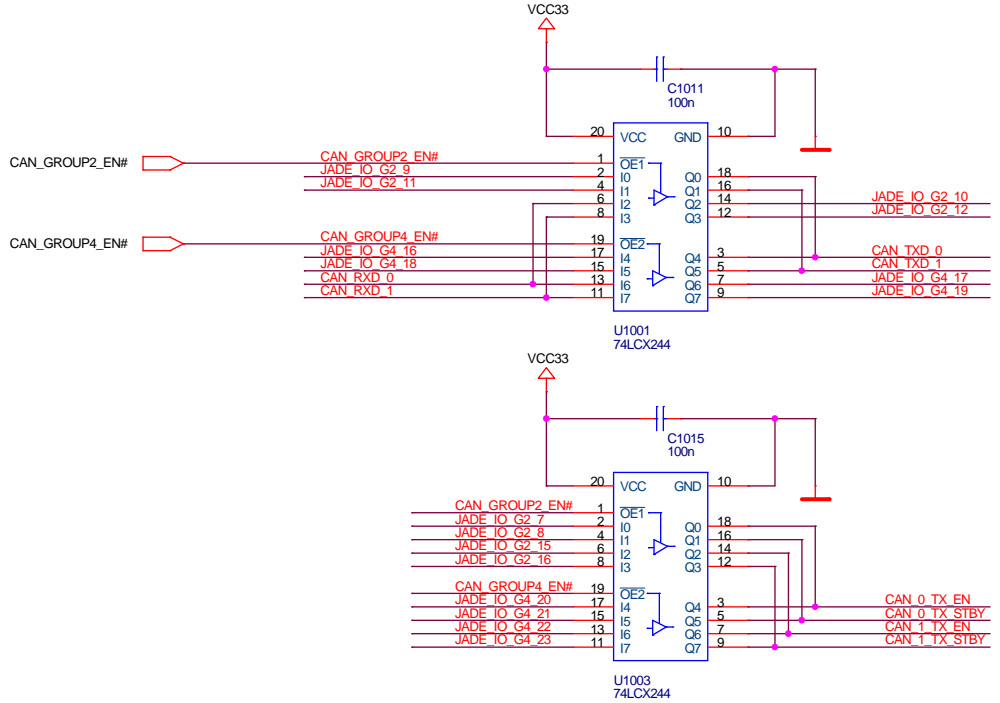
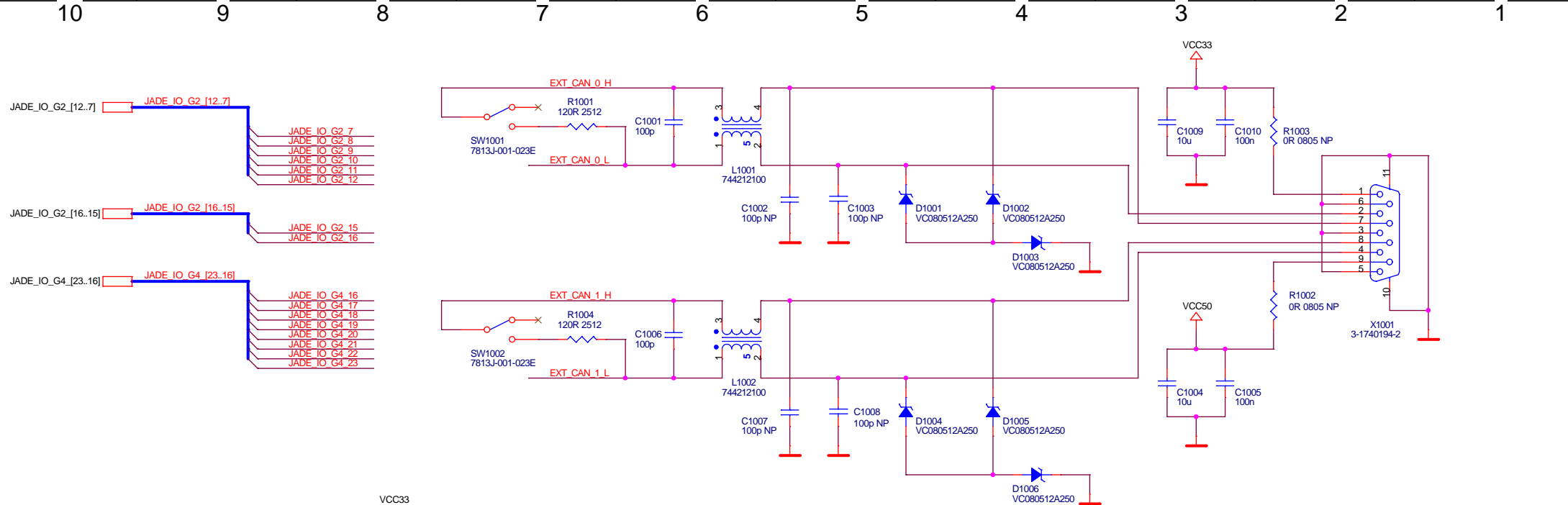
Reset button

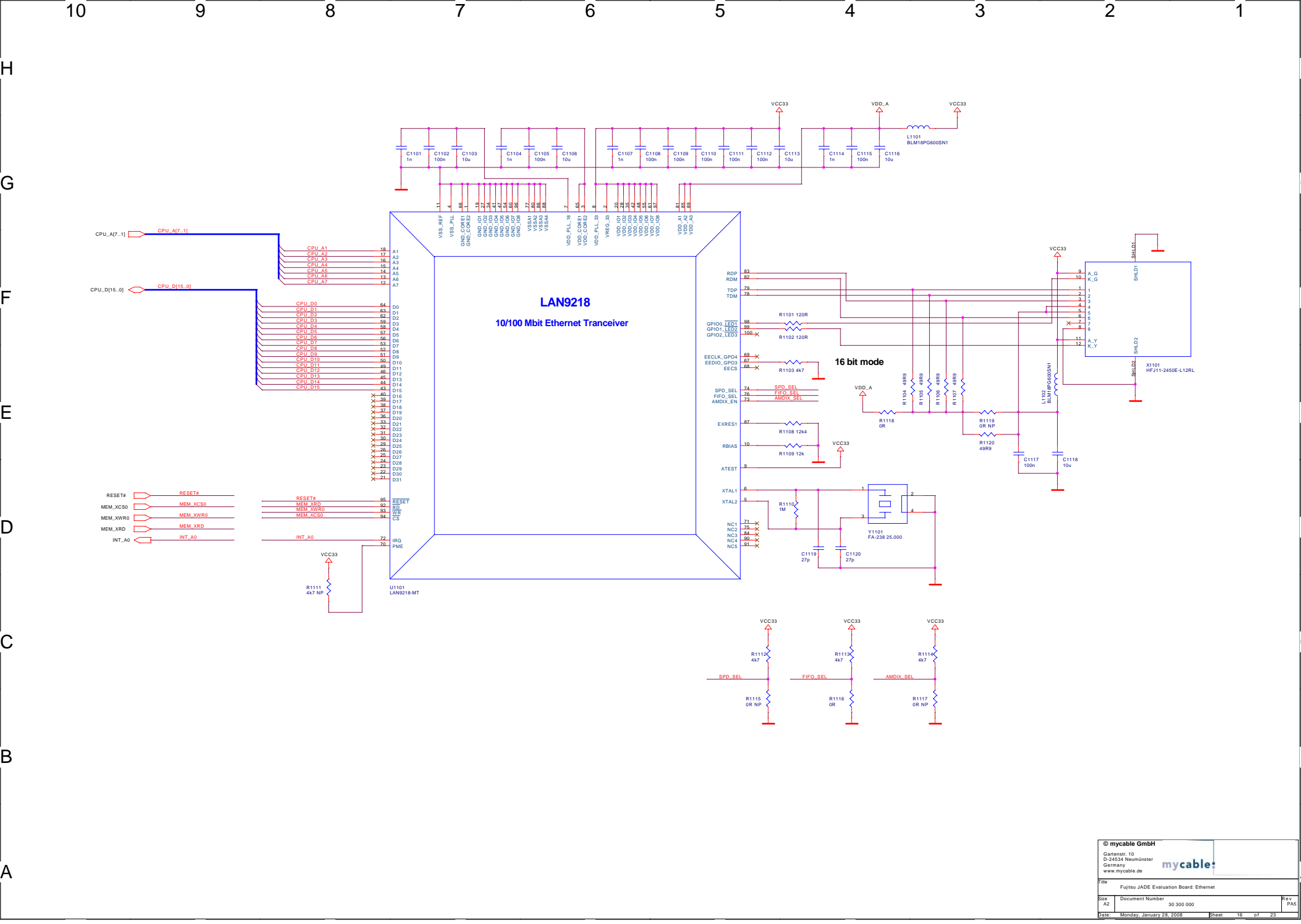


TRACE interface connector



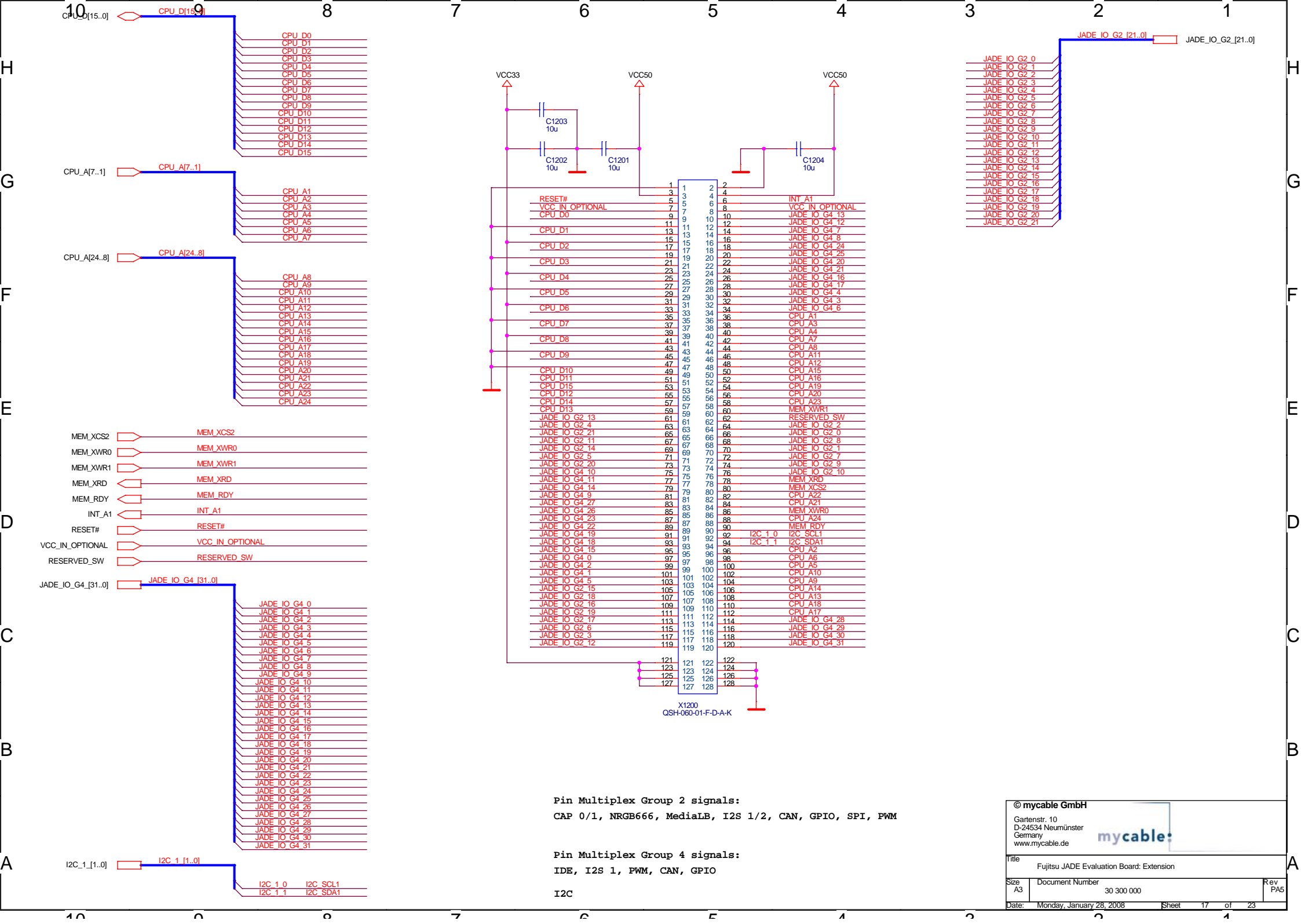






LAN9218
10/100 Mbit Ethernet Transceiver

16 bit mode



Pin Multiplex Group 2 signals:

CAP 0/1, NRGB666, MediaLB, I2S 1/2, CAN, GPIO, SPI, PWM

Pin Multiplex Group 4 signals:

IDE, I2S 1, PWM, CAN, GPIO

I2C

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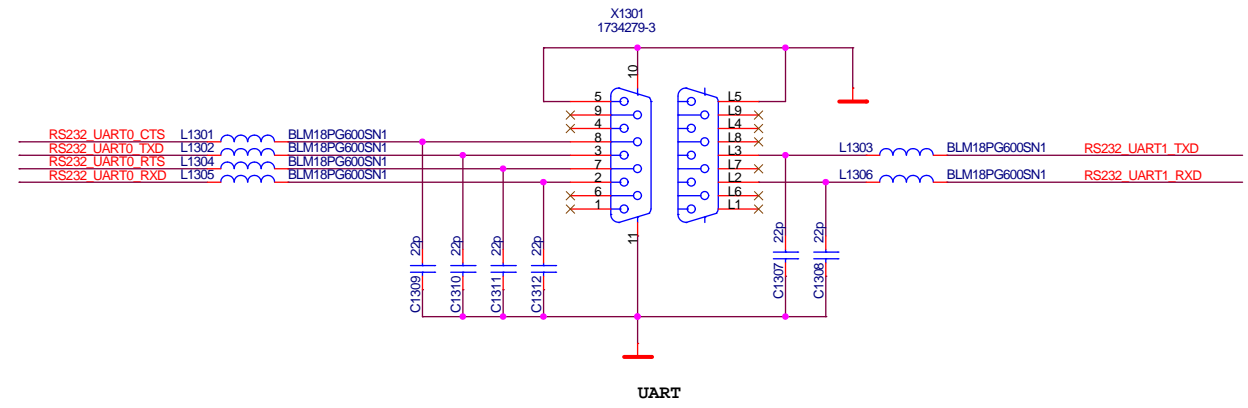
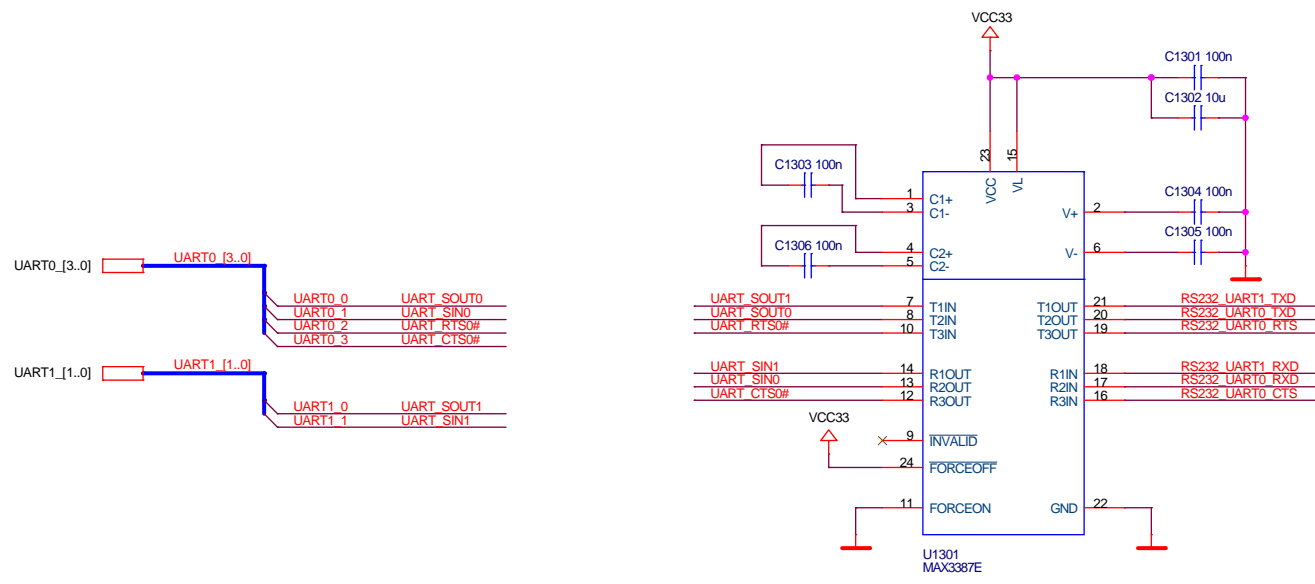
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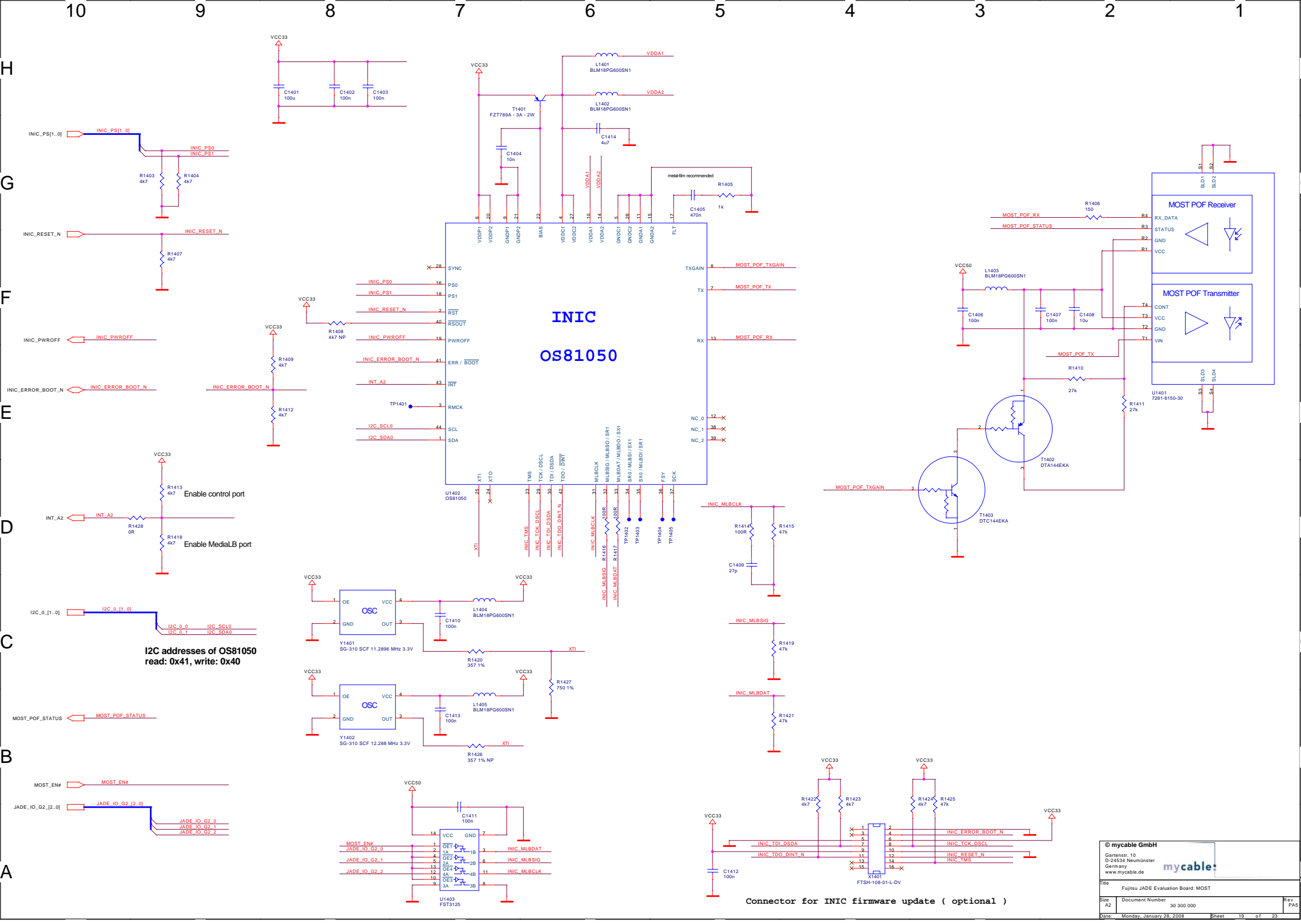


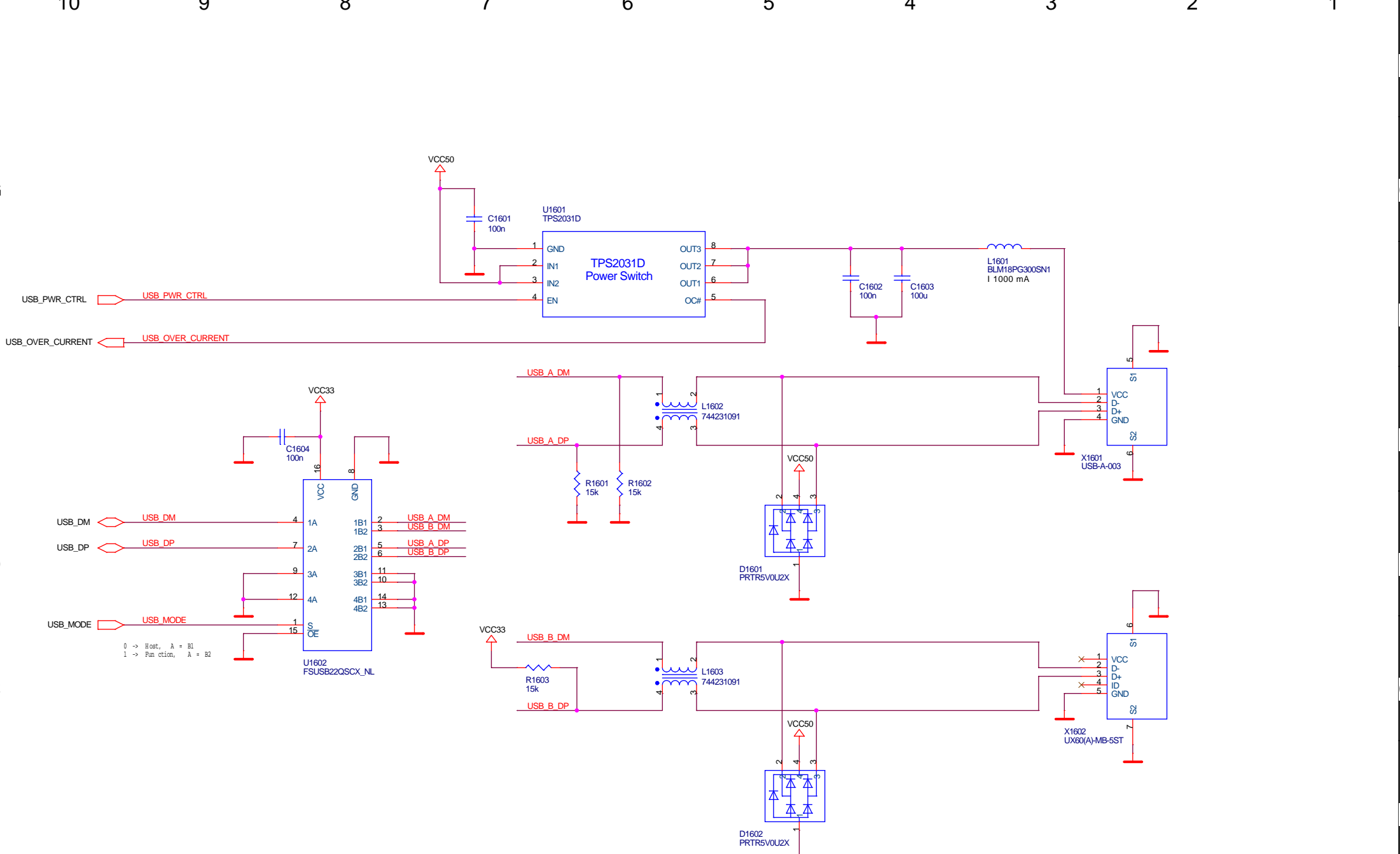
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Size A3	Document Number 30 300 000	Rev PA6
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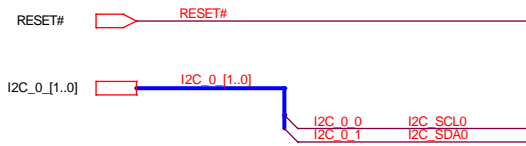
Date: Monday, January 28, 2008 Sheet 17 of 23



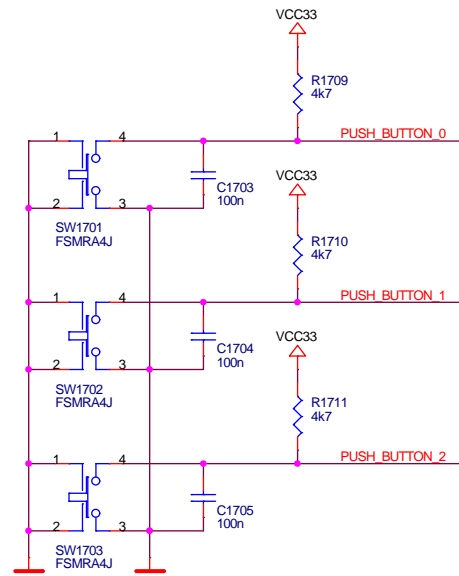
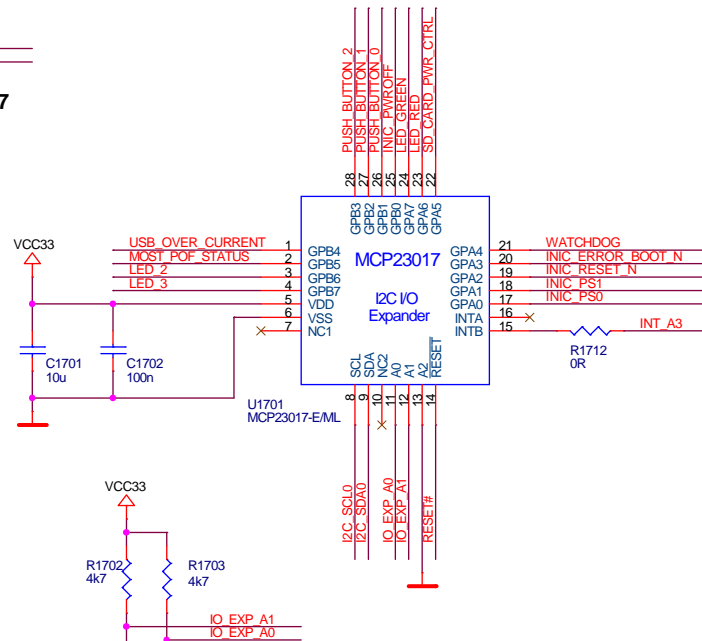
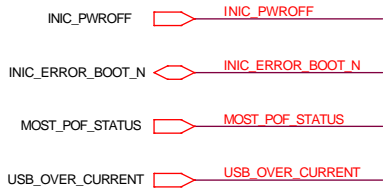




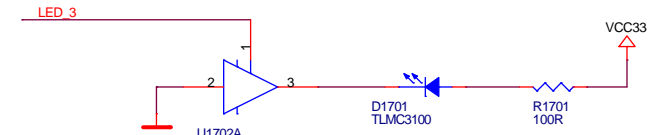
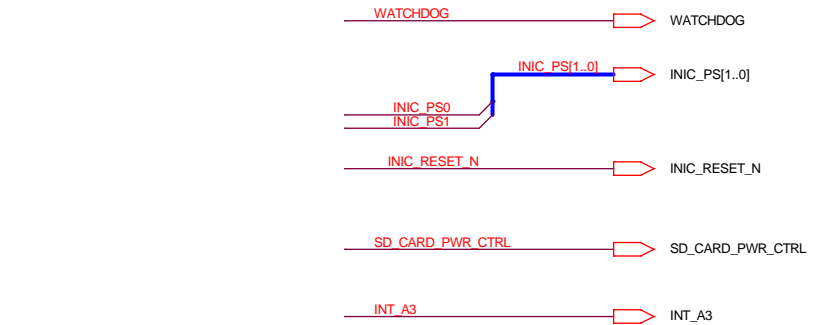
0 -> Host, A = B1
 1 -> Function, A = B2



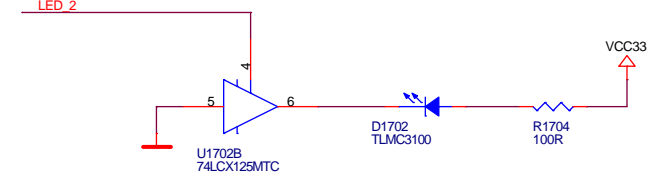
I2C addresses of MCP23017
read: 0x21, write: 0x20



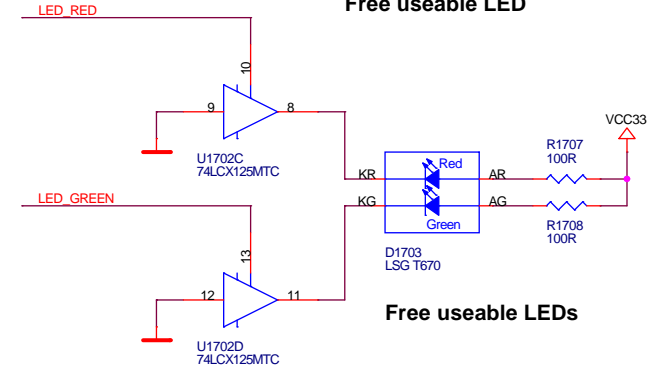
Free useable push buttons



Free useable LED



Free useable LED



Free useable LEDs



I2C address:
read: 0xd1, write: 0xd1

