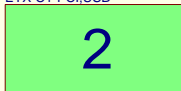
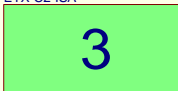


ETX-C1-PCI,USB



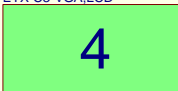
ADA8S221.SCH

ETX-C2-ISA



ADA8S321.SCH

ETX-C3-VGA,LCD



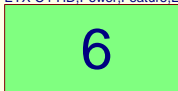
ADA8S421.SCH

LPT,COM,IR,KBMS



ADA8S521.SCH

ETX-C4-HD,Power,Feature,Ethernet



ADA8S621.SCH

IO-Controller



ADA8S721.SCH

Sound



ADA8S821.SCH

Port 80, Monitoring IC



ADA8S921.SCH



PADA8L121



JTLogo



Layersymbol



MKFE-2,6-3



MKFE-2,6-3



MKFE-2,6-3



MKFE-2,6-3



Fudicial



Fudicial

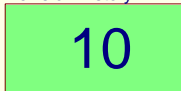


Fudicial



Fudicial

Revision History



ADA8SZ21.SCH

OPTION	PARTFIELD	DESCRIPTION
basic	1	components used on all options
1	2	USB 3/4
2	3	COM3/4 and LPT2
3	4	Sound Amplifier
4	5	Port 80
5	6	Monitoring IC
6	7	
7	8	
8	9	
9	10	
10	11	
11	12	
12	13	
13	14	
14	15	
15	16	

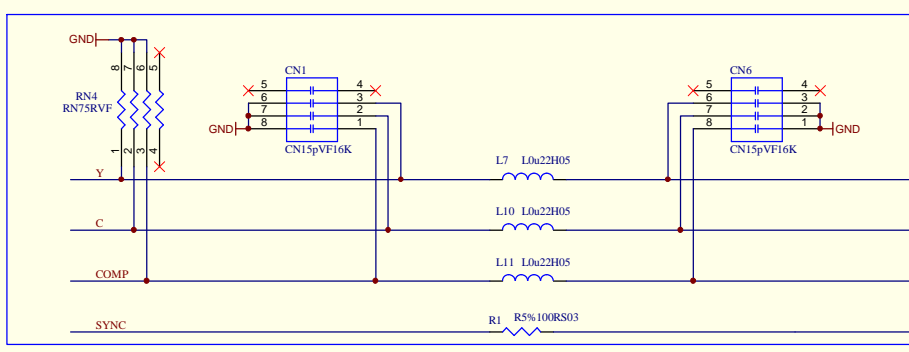
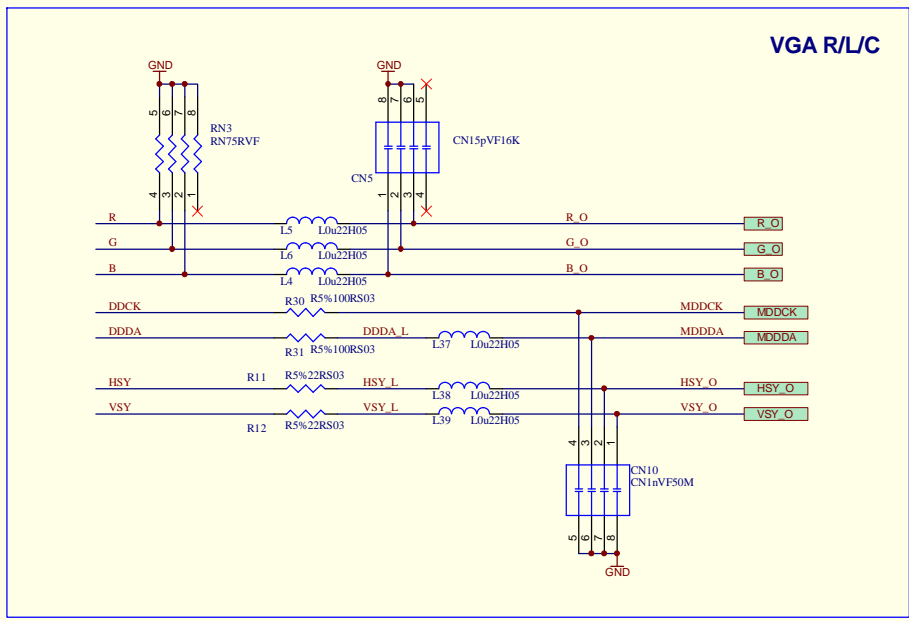
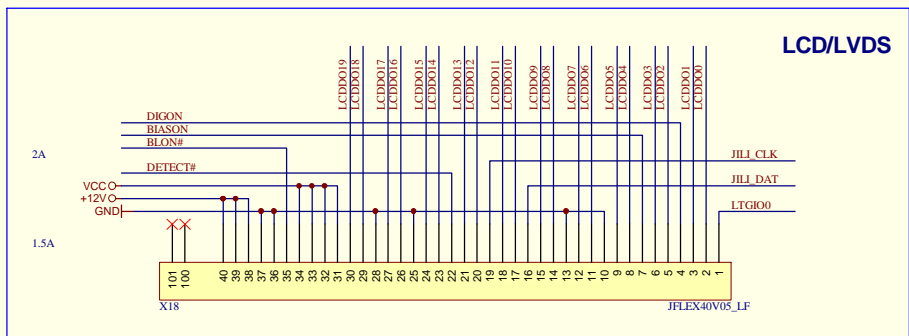
# ADA8 - ETX-Backplane

REV. 2.1

ADA8 - Backplane MOD5	Date: 3-Jul-2006
<b>Kontron Embedded Modules GmbH</b>	Time: 14:53:30
Brunniesenstrasse 16	By: HMA
D-94469 Deggendorf	
Tel: +49 (0) 991 37024-0	
Fax: +49 (0) 991 37024-104	REV: 2.1



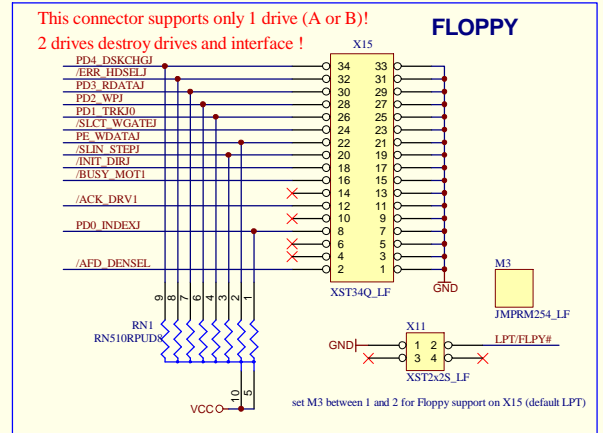




### X3

GND	R	1	1	2	2	GND
	HSY	3	3	4	B	
	VSY	5	5	6	G	
	DETECT#	7	7	8	DDCK	
	LCDD016	9	9	10	DDDA	
	LCDD017	11	11	12	LCDD018	
	LCDD013	13	13	14	LCDD019	
GND	LCDD03	15	15	16	LCDD05	GND
	LCDD02	17	17	18	LCDD04	
GND	LCDD08	19	19	20	LCDD01	GND
	LCDD09	21	21	22	LCDD010	
GND	LCDD04	23	23	24	LCDD07	GND
	LCDD05	25	25	26	LCDD06	
	LCDD01	27	27	28	LCDD03	GND
GND	LCDD00	29	29	30	LCDD02	
	JLI1 DAT	31	31	32	LTG00	VCC
	JLI1 CLK	33	33	34	BLON#	
	BIASON	35	35	36	DIAGON	
	COMP	37	37	38	Y	
	SYNC	39	39	40	C	
	LPT/FLPY#	41	41	42		
VCCO	/STB#	43	43	44	/AFD DENSEL	GND
	FIR	45	45	46	PD7	
	IRRX	46	46	47	/ERR HDSELJ	
	IRTX	47	47	48	PD6	
	RXD2	48	48	49	/INIT DIRJ	
GND	RTS2J	49	49	50	PD5	GND
	DTR2J	50	50	51	/SLIN STEPJ	
	DCD2J	51	51	52	PD4 DSKCHGJ	PD4 DSKCHGJ
	DSR2J	52	52	53	PD3 RDATAJ	PD3 RDATAJ
	CTS2J	53	53	54	PD2 WPJ	PD2 WPJ
	TXD2	54	54	55	PD1 TRKJ0	PD1 TRKJ0
	R1J	55	55	56	PD0 INDEXJ	PD0 INDEXJ
VCCO	RXD1	56	56	57		
	RTS1J	57	57	58	/ACK DRV1	/ACK DRV1
	DTR1J	58	58	59	/BUSY MOT1	/BUSY MOT1
	DCD1J	59	59	60	PE WDATAJ	PE WDATAJ
	DSR1J	60	60	61	/SLCT WGATEJ	/SLCT WGATEJ
	CTS1J	61	61	62	MSCLK	MSCLK
	TXD1	62	62	63	MSDAT	MSDAT
	R1J	63	63	64	KBCLK	KBCLK
	R1J	64	64	65	KBDAT	KBDAT
GND		65	65	66		
		66	66	67		
		67	67	68		
		68	68	69		
		69	69	70		
		70	70	71		
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		74	74	75		
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		99	99	100		
		100	100			

XFX8/100S0\_LF



**C3 - VGA, LCD**

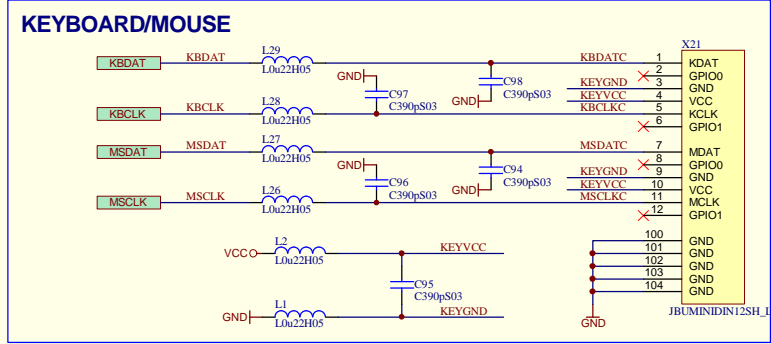
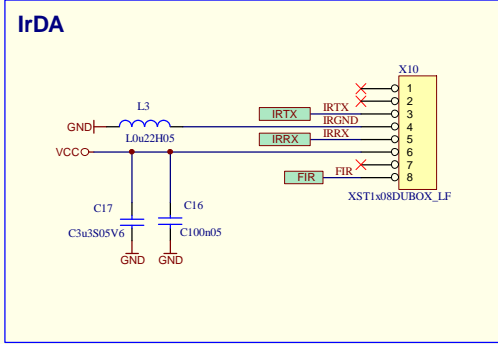
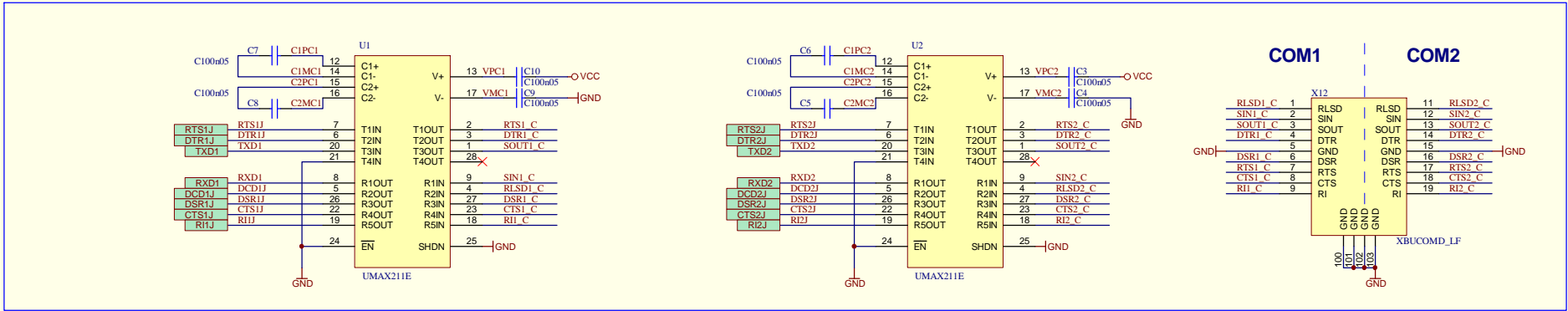
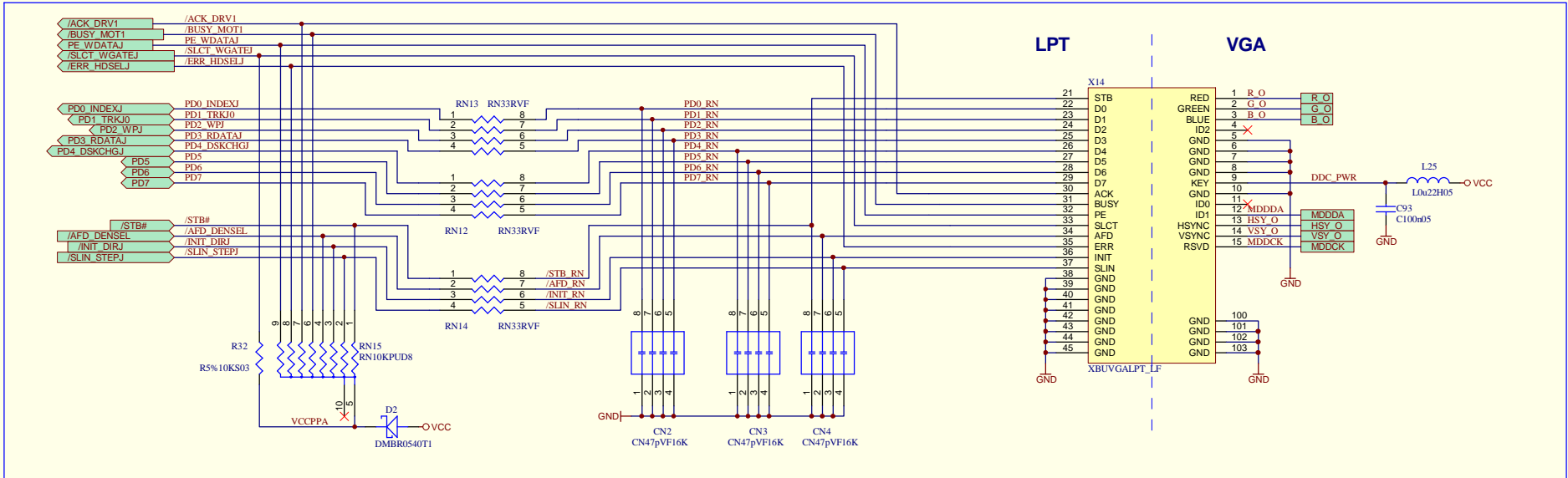
**Kontron Embedded Modules GmbH**  
 Brunnwiesenstrasse 16  
 D-94469 Deggendorf  
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Date: 3-Jul-2006  
 Time: 14:53:34  
 By: HMA

REV: 2.1

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Page 4 of 10

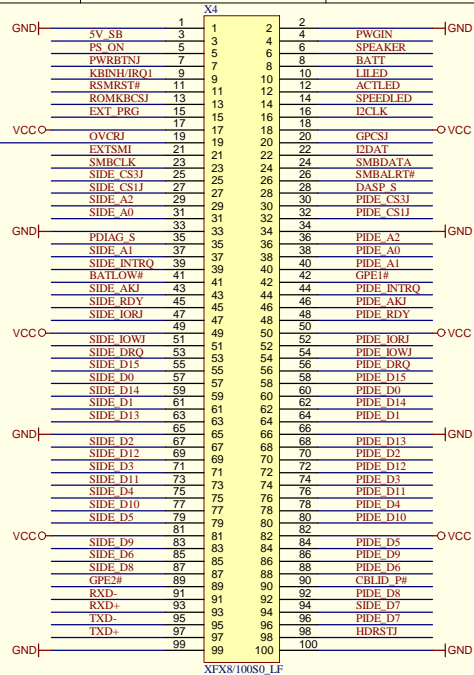


LPT,COM,IR,KBMS

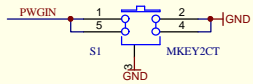
**Kontron Embedded Modules GmbH**  
 Brunnwiesenstrasse 16  
 D-94469 Deggendorf  
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Date: 3-Jul-2006  
 Time: 14:53:34  
 By: HMA

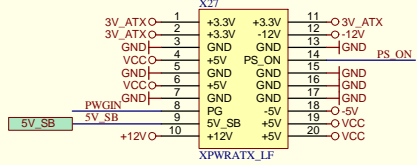
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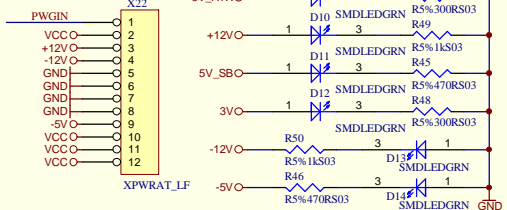
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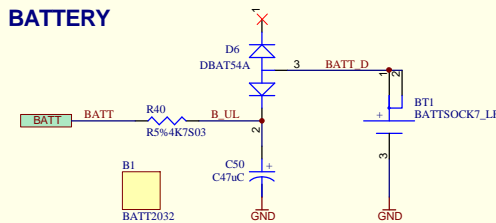
### POWER ATX



### POWER AT

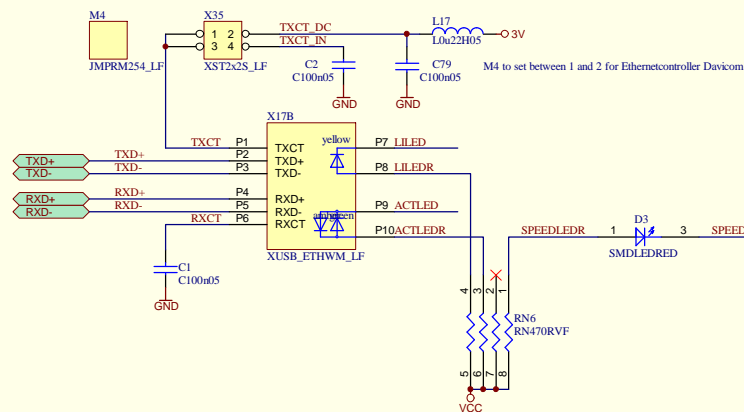


### BATTERY

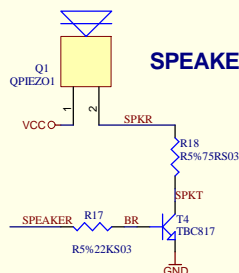


designed for 1E-6 A Realtimeclock current  
 3V-1E-6A\*4.7E3 Ohm -0.3V = 2.695V  
 I<sub>max</sub> = 2.7V/4.7E3 Ohm = 510E-6A Battery current if shorted

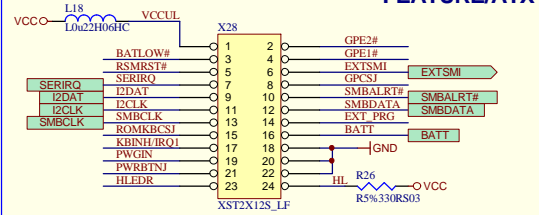
### ETHERNET



### SPEAKER



### FEATURE/ATX



C4 - HD,Power,Feature,Eth

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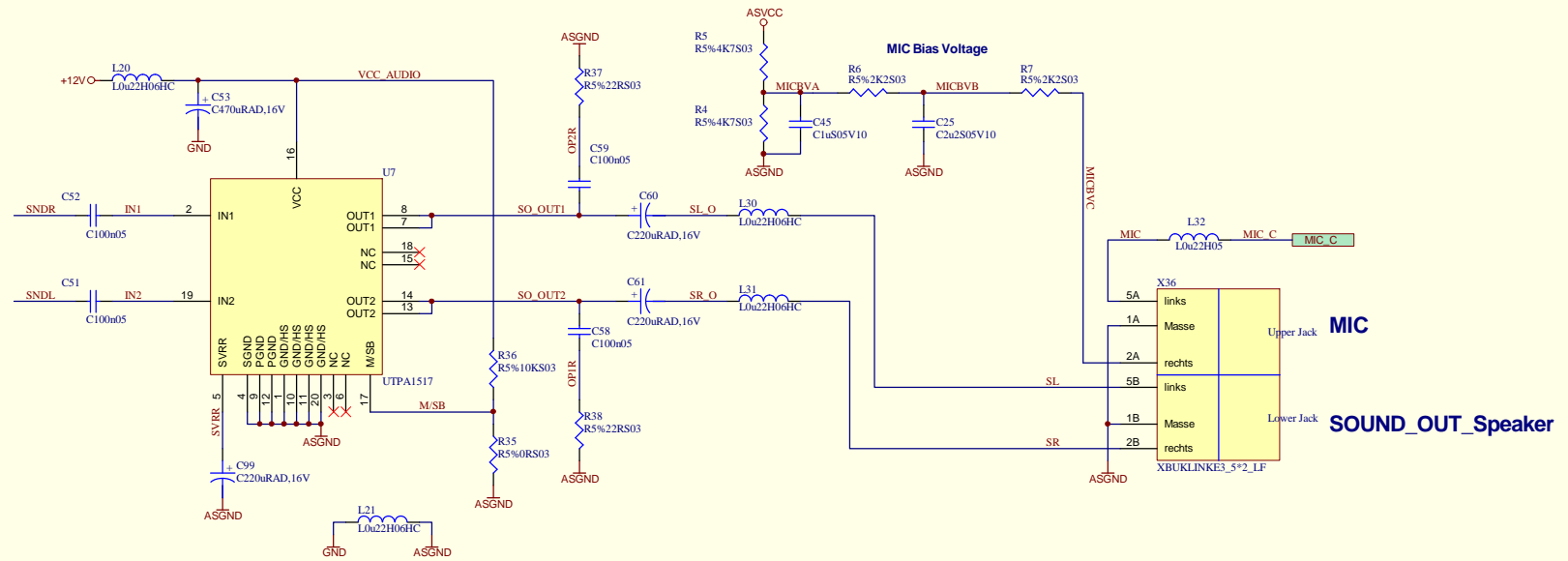
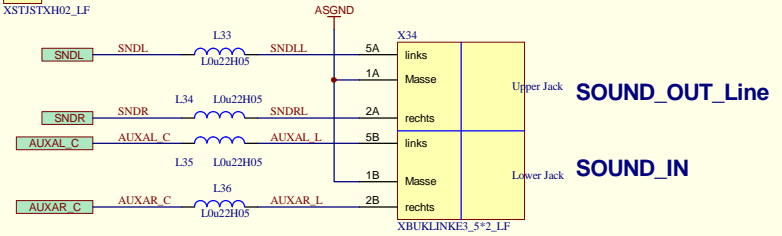
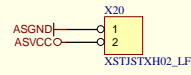
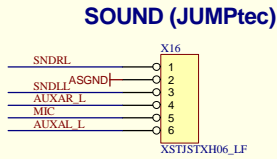
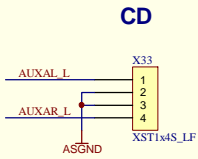
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 By: HMA

REV: 2.1


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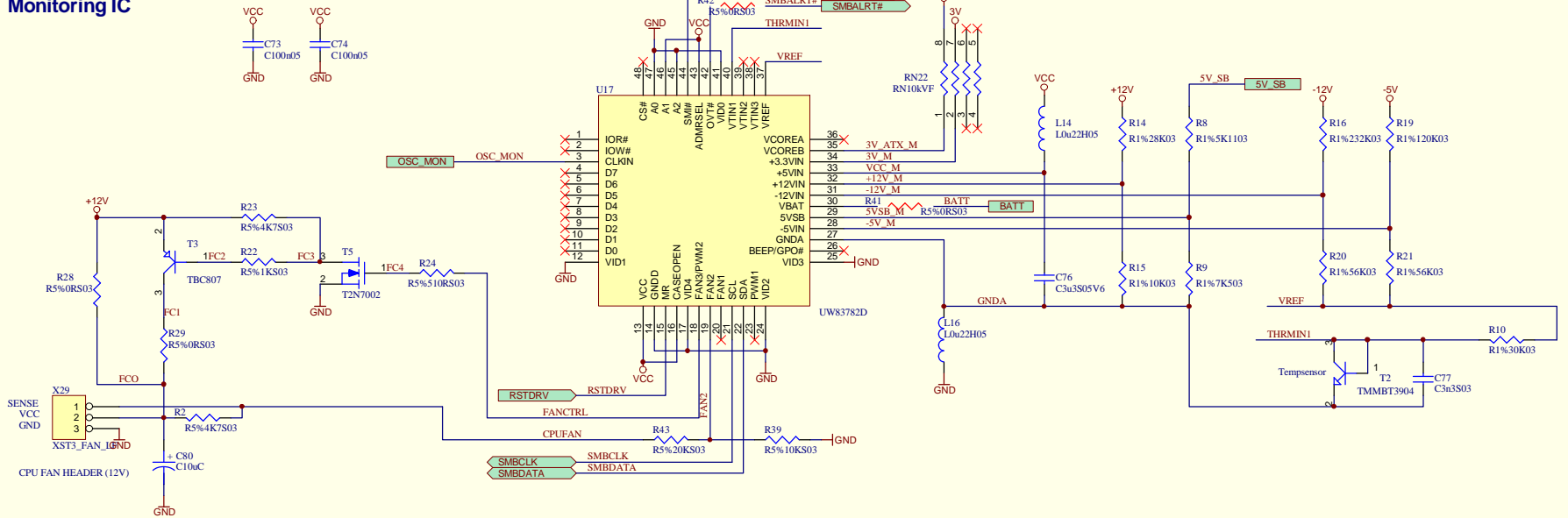




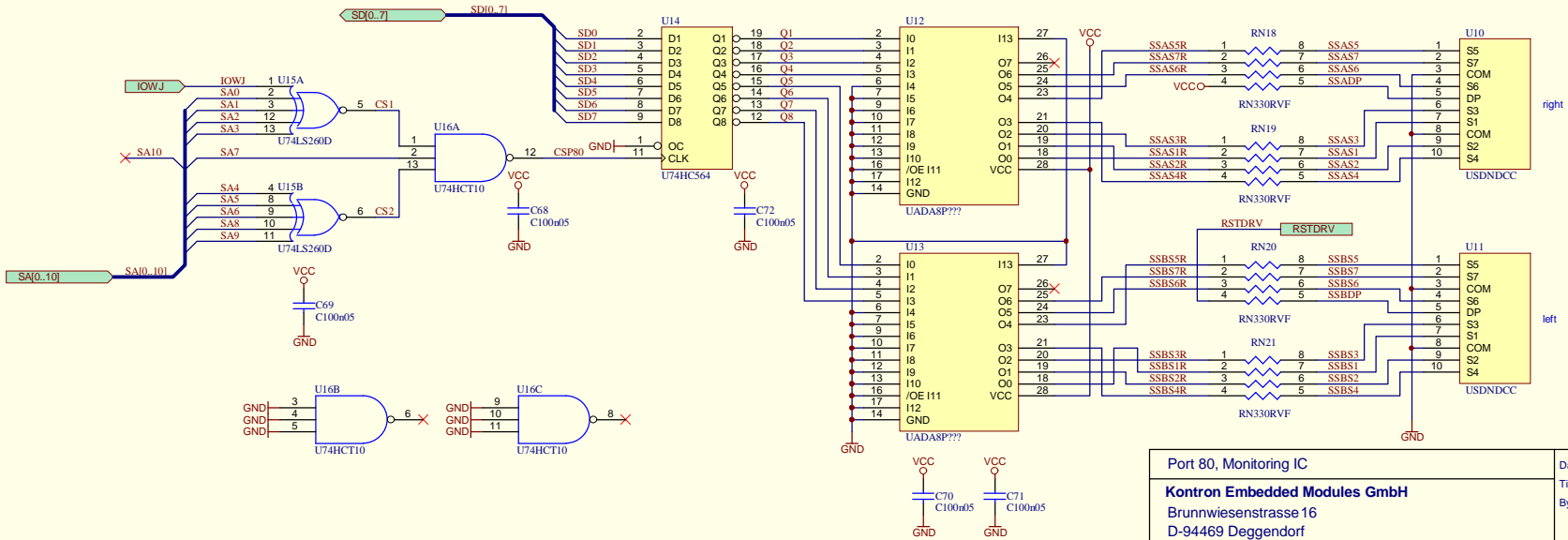
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Brunniesenstrasse 16	By: HMA
D-94469 Deggendorf	
Tel: +49 (0) 991 37024-0	
Fax: +49 (0) 991 37024-104	REV: 2.1
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# Monitoring IC



# Port 80



<b>Port 80, Monitoring IC</b> <b>Kontron Embedded Modules GmbH</b> Brunnwiesenstrasse 16 D-94469 Deggendorf Tel: +49 (0) 991 37024-0 Fax: +49 (0) 991 37024-104		Date: 3-Jul-2006 Time: 14:53:38 By: HMA
File: P:\#RoHS convert done\ADA8\template\AD... Page 9 of 10		<b>kontron</b> <i>... always a Jump ahead!</i>

## Revision History

<b>Rev. 1.0:</b>	13.11.99 HMA		Design created
<b>Rev. 1.1:</b>	31.03.00 HMA	2	Corrected PCI Interrupt routing New signal SERIROQ to ETX-connector X1 Added control switch for USB-power Renamed analog OLT signals Removed ASGND from Sound connectors Added missing +12/-5/-12 power pins for ISA
		3	Removed LTG10 jumper X15
		4	Renamed MONID0..1 to DDCK and DDDA; removed MONID2 Added new signal LPT1/FLPY#, added Floppy support
		5	Changed footprint of X14 Changed PD0..PD7 on X14
		6	DDDA and DDCK instead of MONID0..3 Added OVCRJ signal to ETX-connector X4 Added backup capacitor for BATT signal Renamed INTRO-signals of IDEs
		7	Added IO-controller for floppy support
<b>Rev. 1.2:</b>	14.06.00 HMA	3	Added array and optional buffer for OSC-signal
		6	Separated 3V from ATX to ETX
		7	Added termination for OSC-signal of SMC
<b>Rev. 1.3:</b>	11.09.00	2	change PCI IRQ labels for similar name like PCI spec; remove 3V_ATX add backplane EEPROM
	23.11.00 BS	8	changed Floppy Interface on X15 to use MOD1 and MOD5
		9	possible to configure Ethernet for DAVICOM or INTEL
		10	possibility to use zero ohm resistors for no CE added Speaker out 1W added special f45+usb jack with leds
<b>Rev. 1.4:</b>	20.06.01 HMA	2	added 3.3_ATX to PCI-connectors
		4	replaced R2 by jumper M3
		5	modified pinout of X15 (floppy) according to ETX-spec 2.6 added associated parts for DDC..PWR line added FUSE for Keyboard- and mouseconnector added associated parts for Keyboard- and mouseconnector
		6	removed IO16J from IDE-connectors added new ETX-signals for Powermanagement
		7	added support of LPT2: COM3/4
		8	added MIC BIAS voltage corrected shape of U7
		9	replaced LM1877 by TPA1517 from ETX design guide 1.0 added Port 80 7-segment display added SM Monitoring IC
		All	renamed some signals according to ETX-spec 2.6 modification according to ETX design guide 1.0
			<b>Not released!</b>
<b>Rev. 1.5:</b>	20.11.01 HMA	6	replaced X17 by new type with integrated magnetics added optional jumpers for CSEL signals of IDE ports
<b>Rev. 2.0:</b>	26.07.2005 STC		converted Project to be conform with European RoHS standard, no netlist and PCB has been created !
<b>Rev. 2.1:</b>	26.07.2005 STC	6	added LED_D10 - D16
		9	added R39 and R43, removed D1 and placed R2 between Pin 1 and Pin 2 of X29

Revision History		Date: 3-Jul-2006
Kontron Embedded Modules GmbH		Time: 14:53:39
Brunnwiesenstrasse 16		By: HMA
D-94469 Deggendorf		
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