

Qseven Mini Carrier Board

Rev.X.0

Content

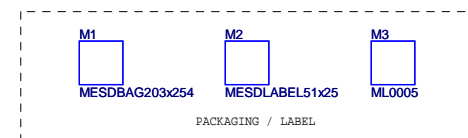
Page 1	MAIN
Page 2	Qseven connector / SPI HDR
Page 3	FAN / BTN-LED HDR / CAN
Page 4	miniCARD / GBE
Page 5	SATA / CFAST / SD CARD
Page 6	USB
Page 7	HDMI SDVO/DDPB
Page 8	DisplayPort DDPC / APIX2
Page 9	LCD LVDS
Page 10	HD Audio
Page 11	POWER
Page 12	Revision History



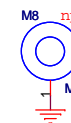
020730X Qseven Mini Carrier Board



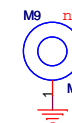
PQMCBLX0



Qseven module	
#57000002	MQ7ALUBAR4H, Qseven aluminum bar, 4x M2.5, 70mmx5mmx5mm
#53000001	4x Machine Screw M2.5x5mm, pan head, philips, DIN7985/ISO7045
#52500001	4x Flat Washer dia. 2.7mm, thickness 0.5mm



Mounting Hole 6.1x3.2mm



Mounting Hole 6.1x3.2mm



Mounting Hole 6.1x3.2mm



Mounting Hole 6.1x3.2mm

Variants

Base Components used on all options

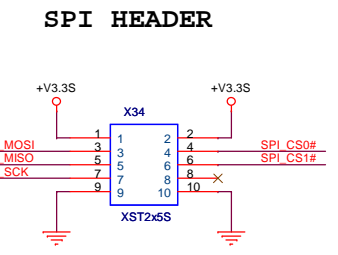
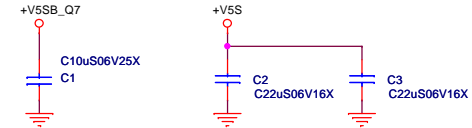
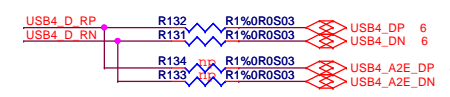
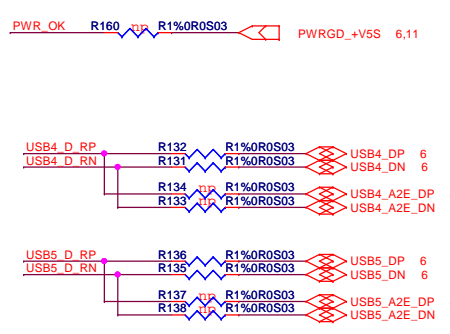
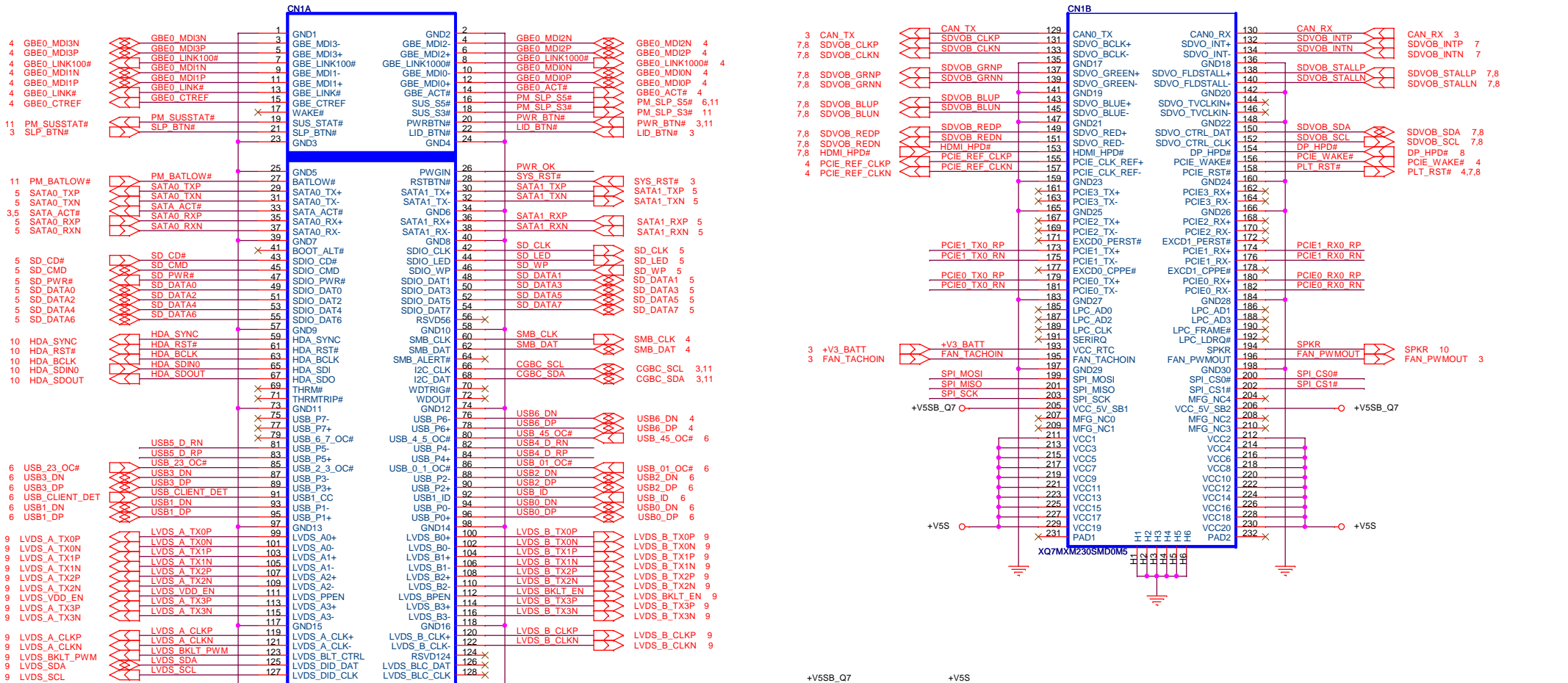
TBD

<Core Design>

Congatec AG
 Auwiesenstrasse 5
 D-94469 Deggendorf
 Germany



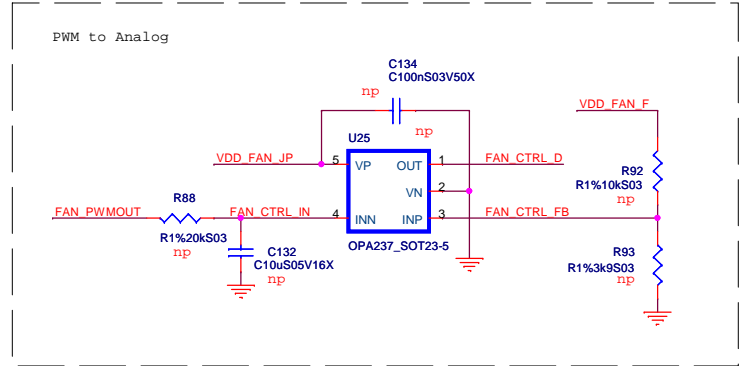
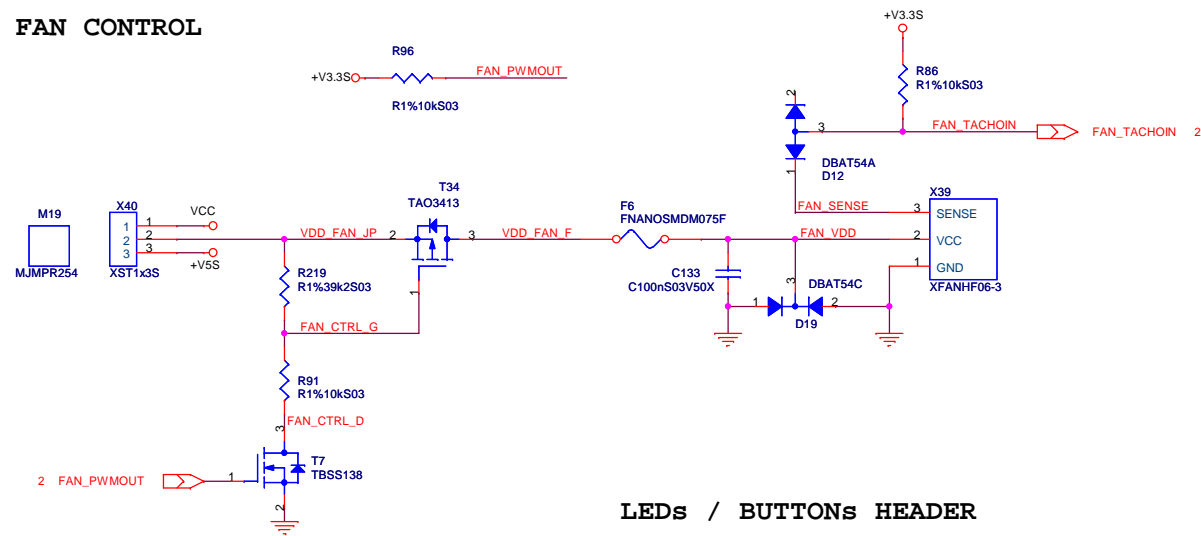
Title			
MAIN			
Size B	Document Number	Created	Rev X.0
	QMCB		
Date:	Wednesday, June 08, 2011	Sheet 1	of 12



<Core Design>

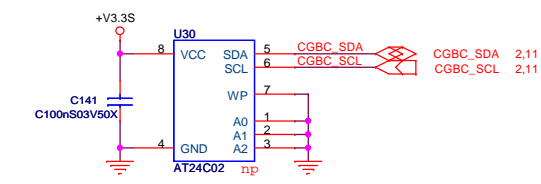
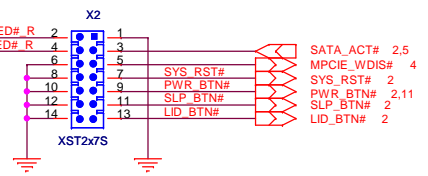
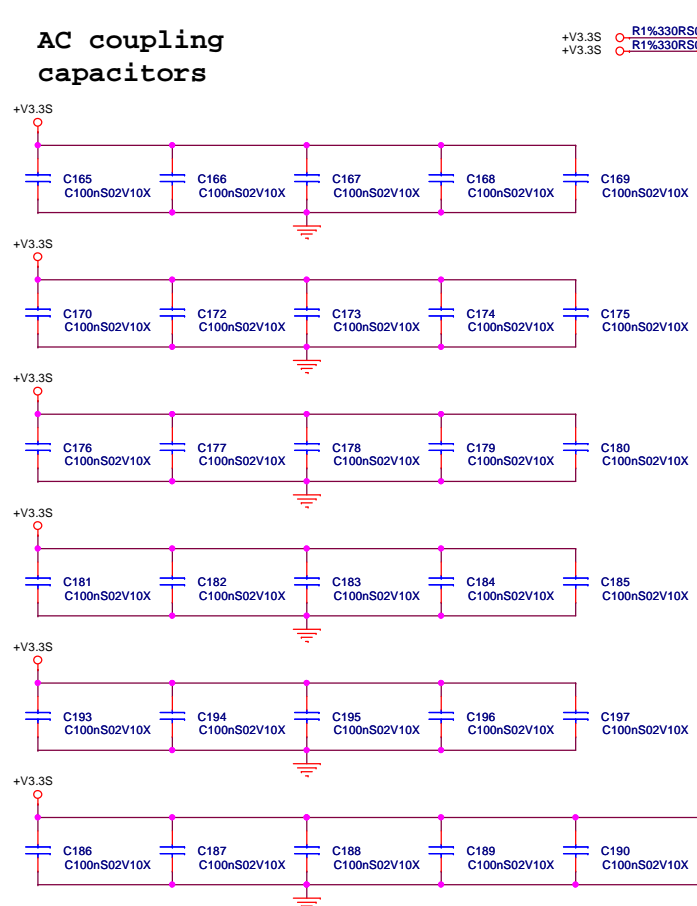
Congatec AG Auwiesenstrasse 5 D-94469 Deggendorf Germany		congatec the rhythm of embedded computing	
Title: Oseven connector / SPI HDR			
Size A3	Document Number QMCE	Created LIKR	Rev X.0
Date: Wednesday, June 01, 2011	Sheet 2	of 12	

FAN CONTROL

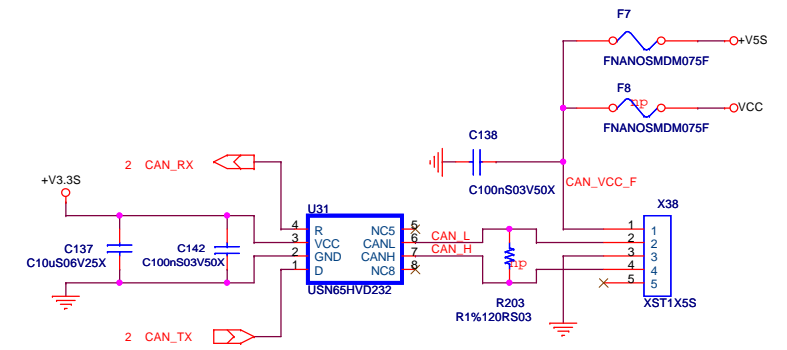


LEDs / BUTTONS HEADER

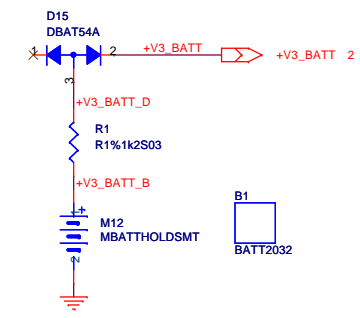
AC coupling capacitors




CAN Transceiver

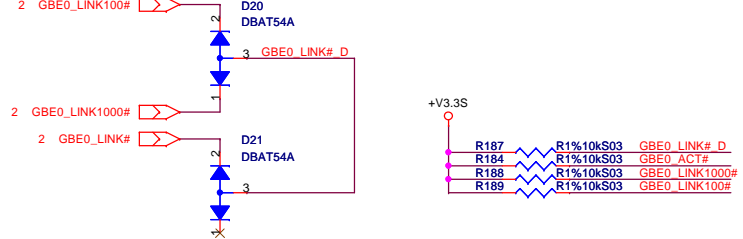
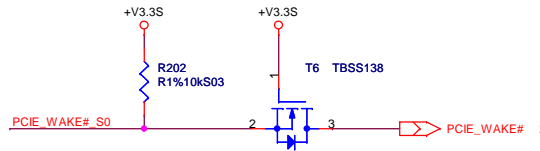
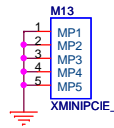
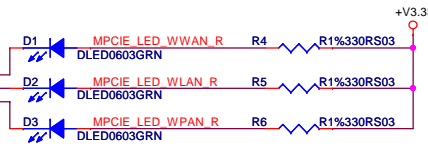
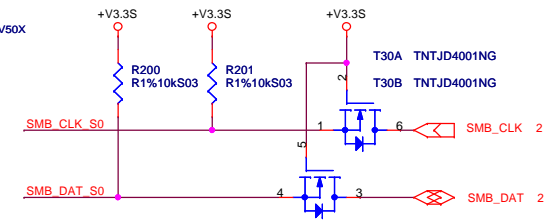
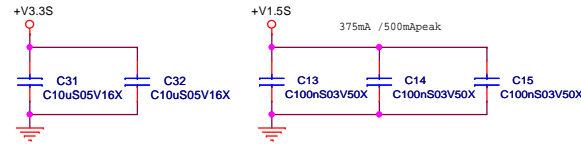
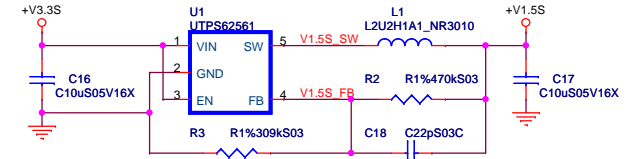
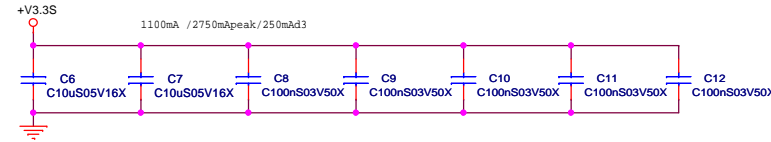
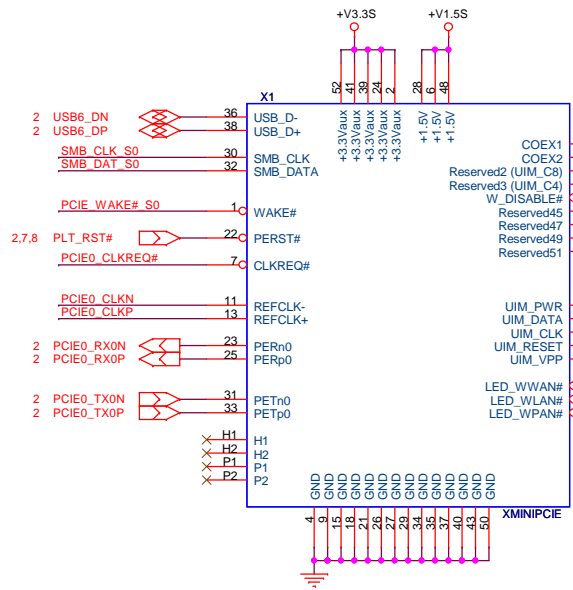


RTC/CMOS BATTERY

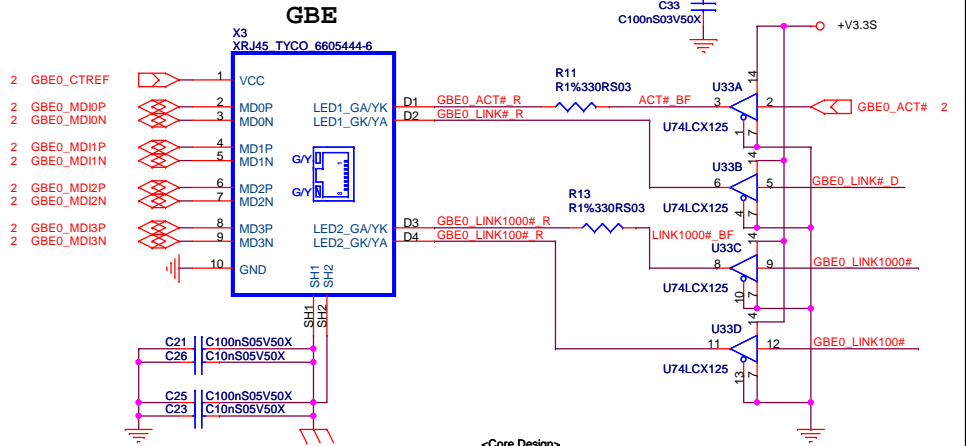
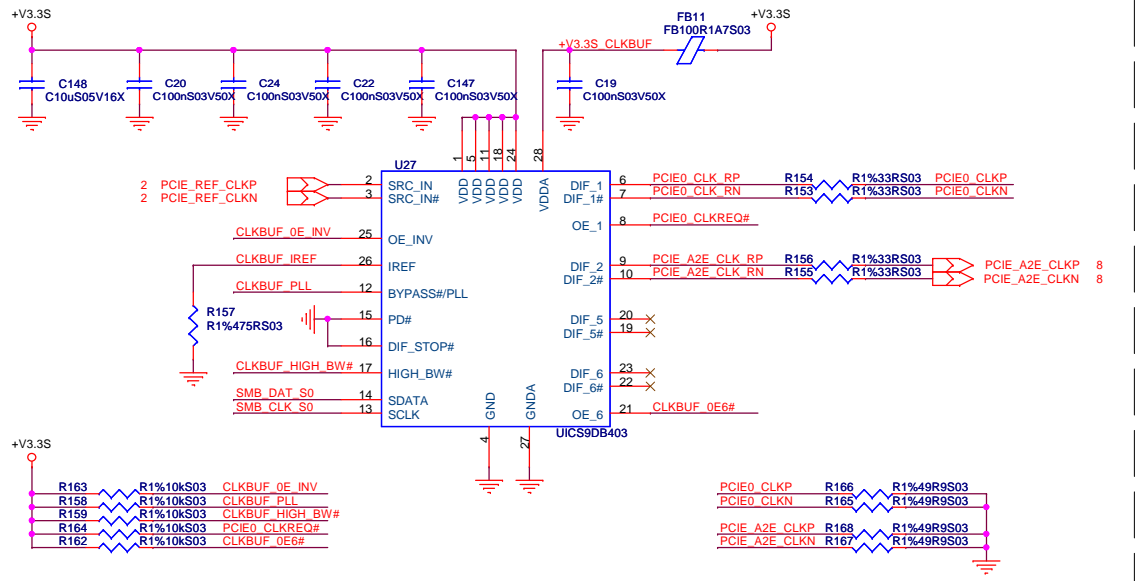


<p>Congatec AG Auwiesenstrasse 5 D-94469 Deggendorf Germany</p>  <p>the rhythm of embedded computing</p>	
<p>Title: FAN Control / BTN-LED HDR / CAN</p>	
Size A3	Document Number QMCEB
Date: Wednesday, June 08, 2011	Created LIKR
Sheet 3	Rev X.0
<p>of 12</p>	

miniCard / PCIE0 / USB6



ASSEMBLED ONLY WITH APIX2 OPTION



<Core Design>

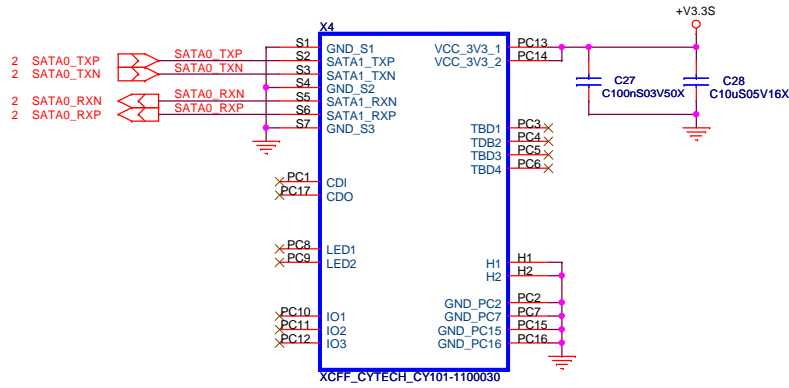
Congatec AG
 Auwiesenstrasse 5
 D-94469 Deggendorf
 Germany

congatec
 the rhythm of embedded computing

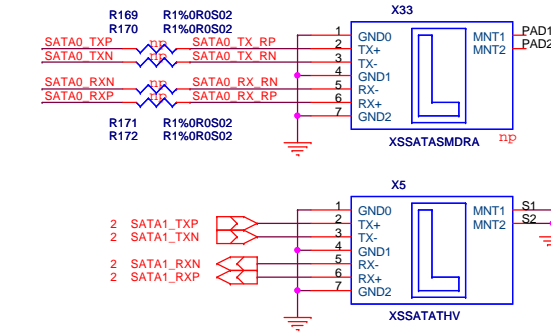
Title: miniCARD / GBE / Feature HDR

Size A3	Document Number QMGB	Created LIKR	Rev X.0
Date: Wednesday, June 08, 2011	Sheet 4	of 12	

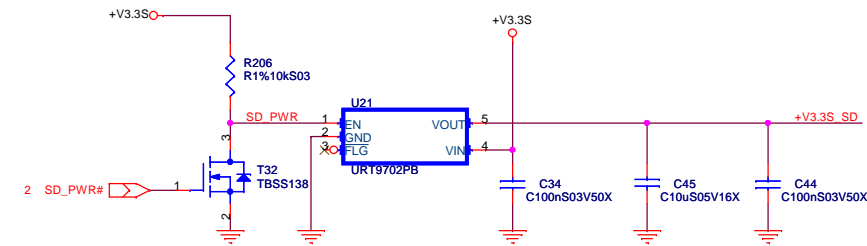
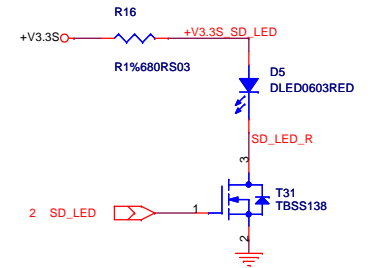
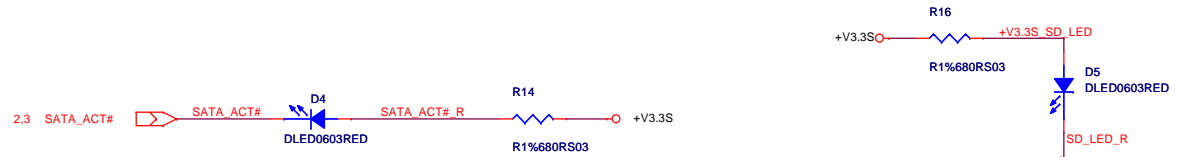
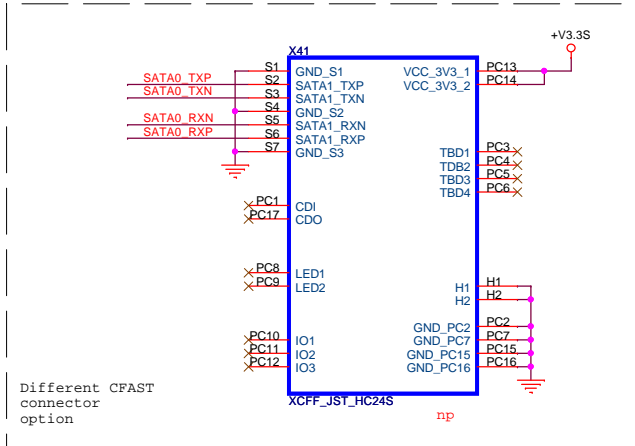
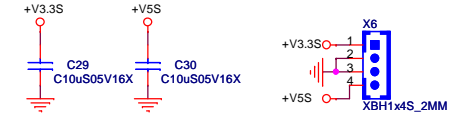
CFast



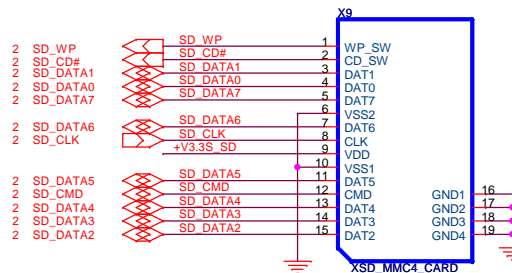
SATA



SATA Power



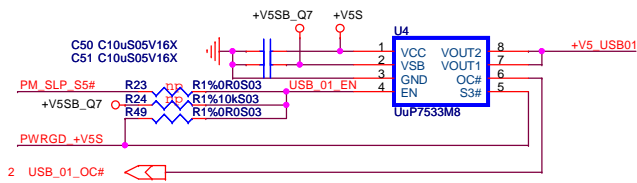
SD Card



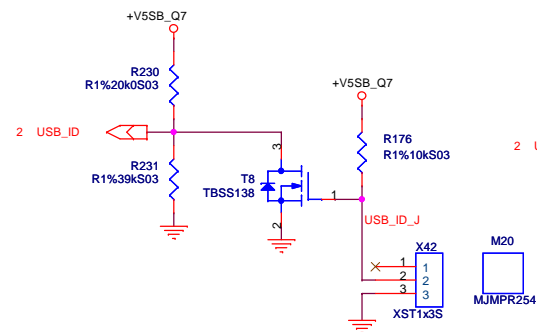
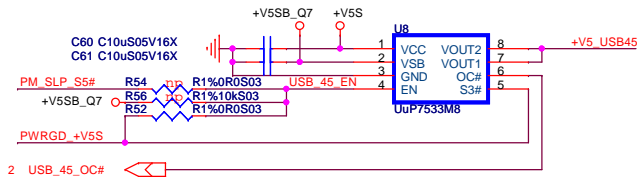
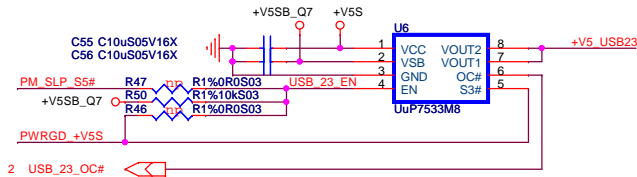
<Core Design>

Congatec AG Auwiesenstrasse 5 D-94469 Deggendorf Germany		the rhythm of embedded computing	
Title: SATA / CFAST / SD CARD			
Size: A3	Document Number: QMCB	Created:	Rev: X.0
Date: Tuesday, June 07, 2011	Sheet: 5	of 12	

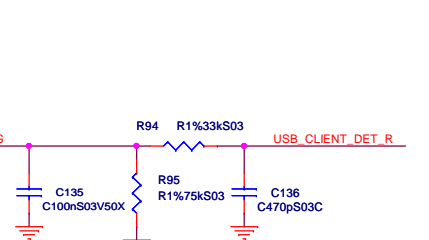
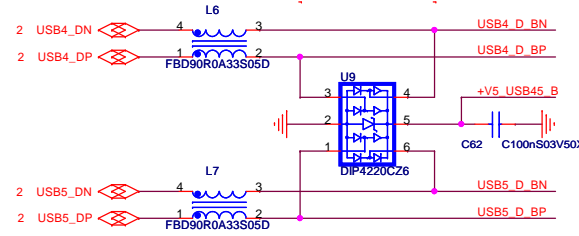
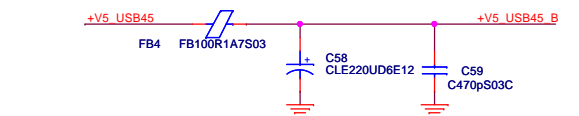
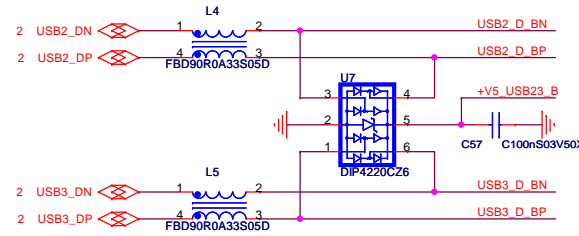
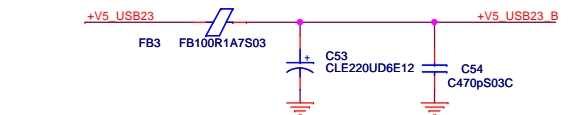
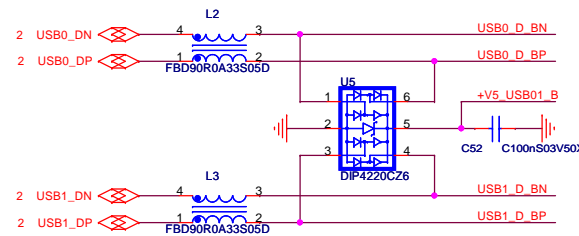
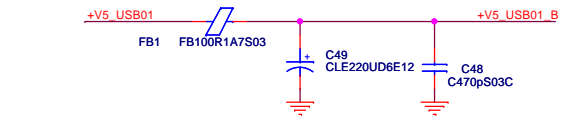
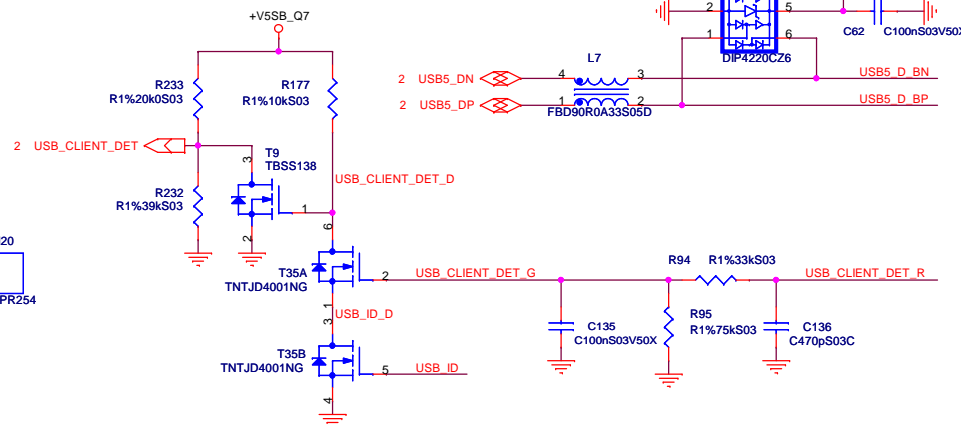
USB1 can by a CLIENT according to QSEVEN SPECIFICATION



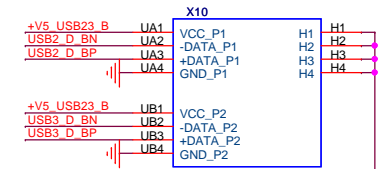
- 2.11 PM_SLP_S5# \rightarrow PM_SLP_S5#
- 2.11 PWRGD +V5S \rightarrow PWRGD +V5S



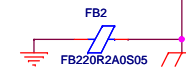
set jumper 1-2 for USB1 as Host USB Port (default)
set jumper 2-3 for USB1 as Client USB Port



USB2

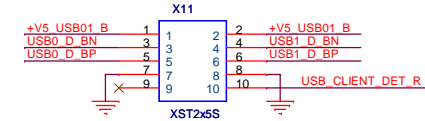


USB3



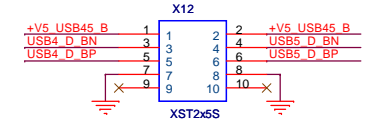
USB0

USB1



USB4

USB5

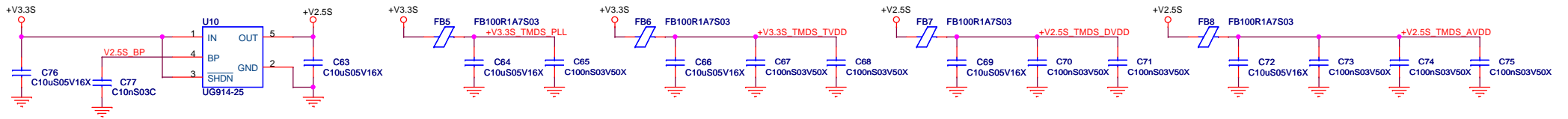


<Core Design>

Congatec AG
Auwiesenstrasse 5
D-94469 Deggendorf
Germany

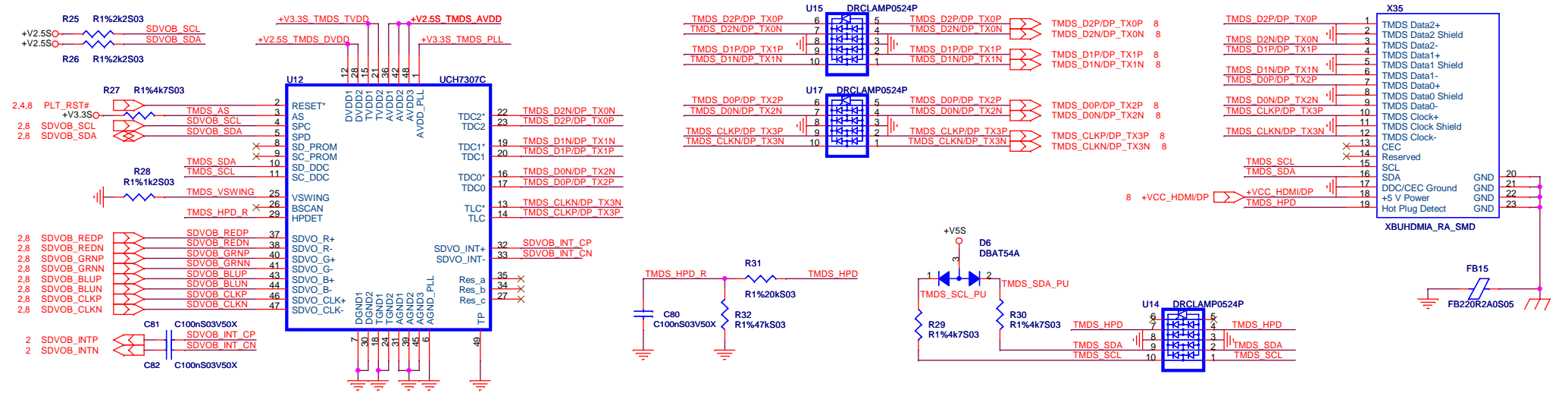


Title			
USB			
Size	Document Number	Created	Rev
A3	QMCB		X.0
Date:	Wednesday, June 08, 2011	Sheet	6 of 12

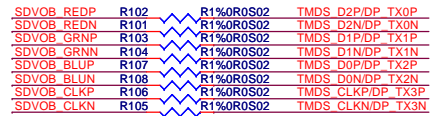


for Qseven modules supporting SDVO

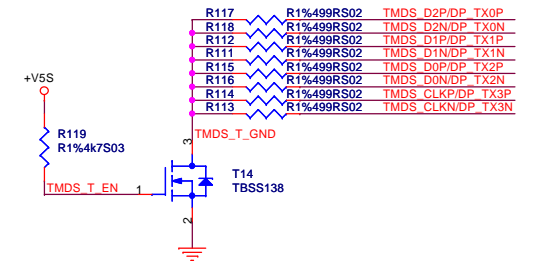
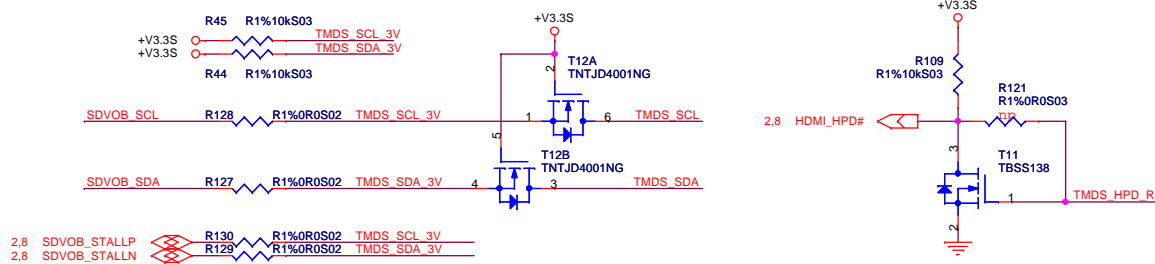
HDMI



for Qseven modules supporting integrated TMDS or DisplayPort



for Qseven modules supporting integrated TMDS



<Core Design>

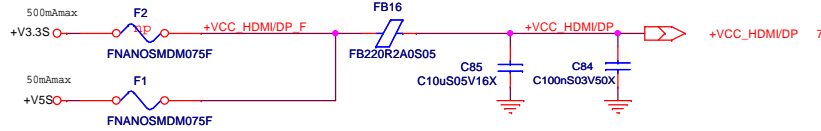
congatec AG
 Auwiesenstrasse 5
 D-94469 Deggendorf
 Germany



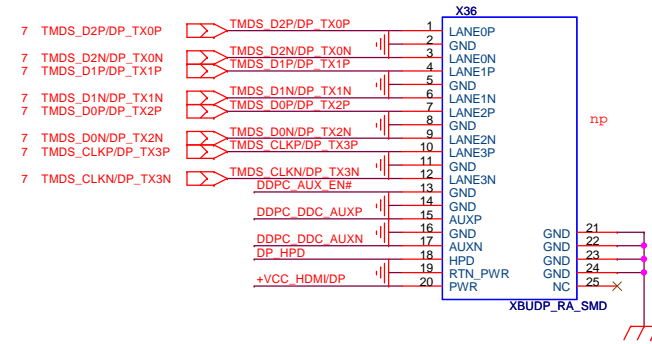
Title				HDMI	
Size	A3	Document Number	CMCB	Created	LKR
Date	Monday, June 06, 2011		Sheet	7	of 12
Rev	X.0				

DisplayPort

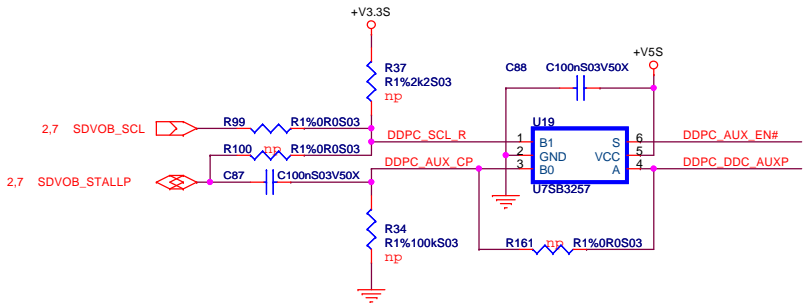
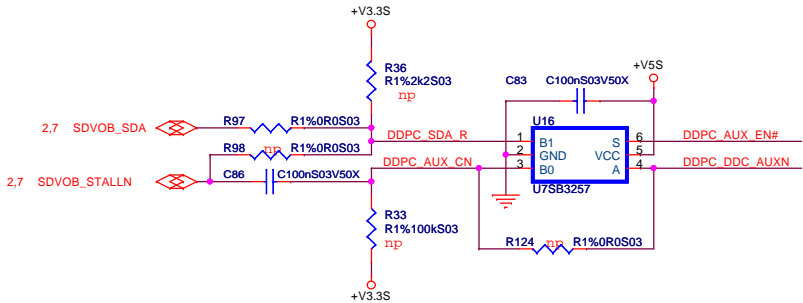
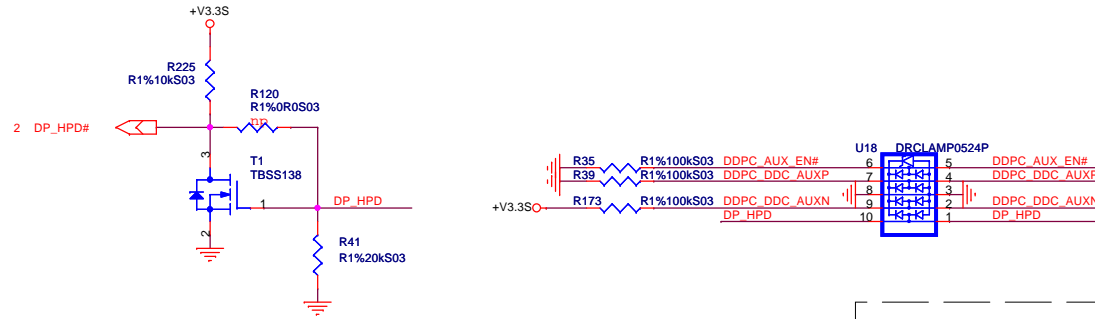
HDMI



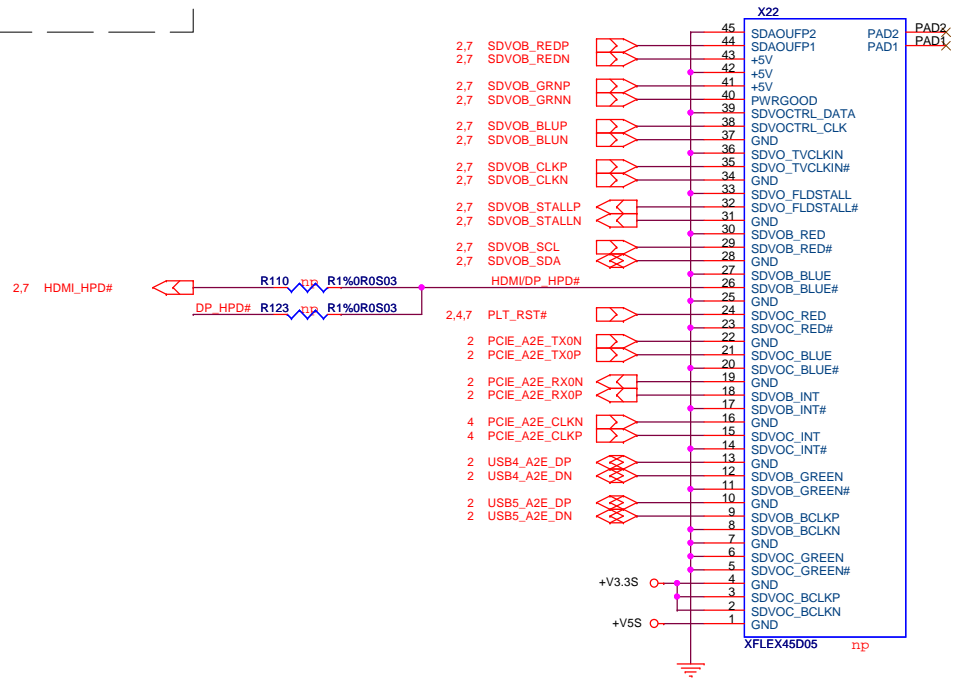
DisplayPort



for Qseven modules supporting DisplayPort



APIX2 Extension

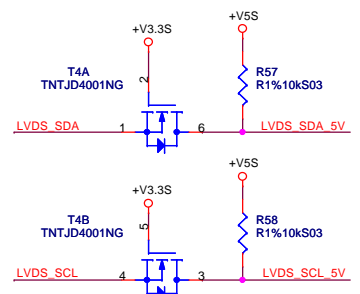
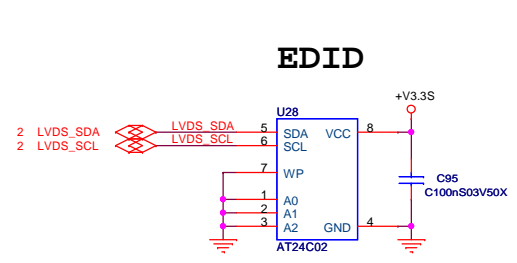
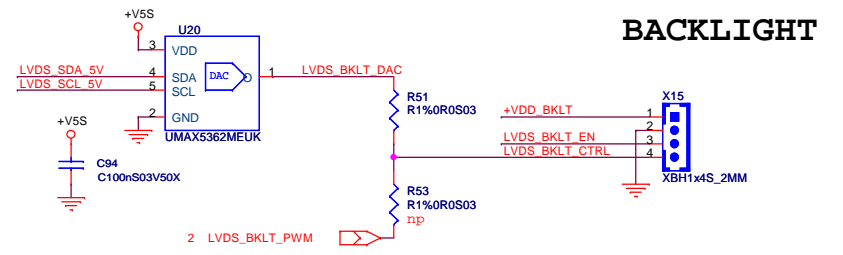
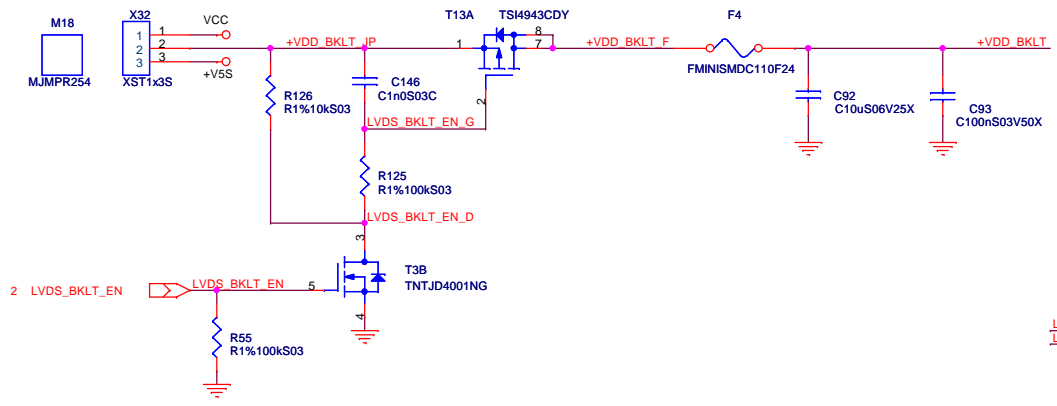
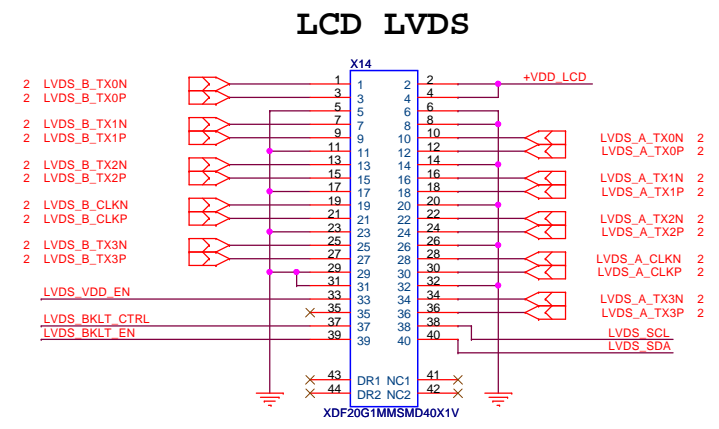
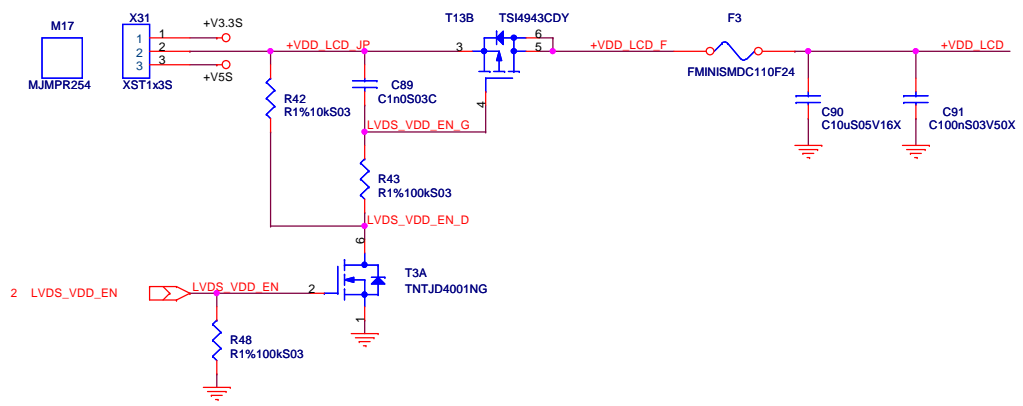


<Core Design>

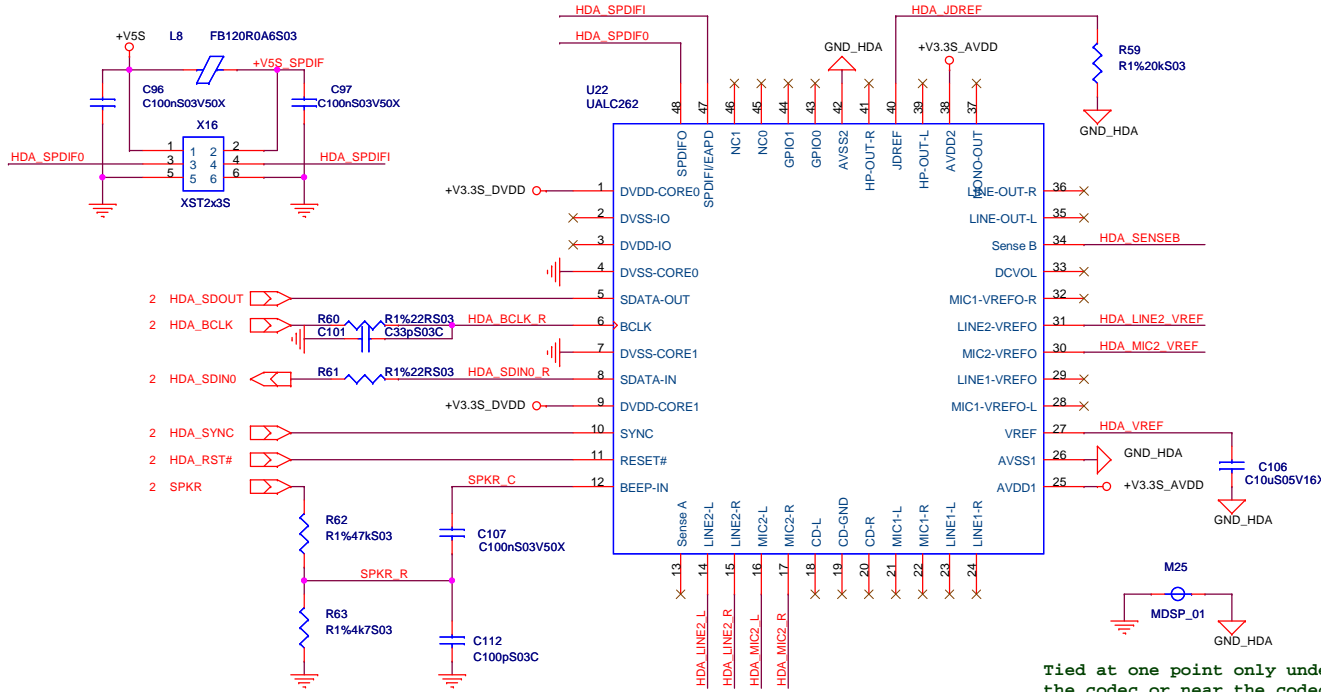
congatec AG
Auwiesenstrasse 5
D-34469 Deggendorf
Germany



Title			
Display Port / APIX2			
Size A3	Document Number QMCS	Created LIKR	Rev X.0
Date: Monday, June 06, 2011	Sheet 8	of 12	

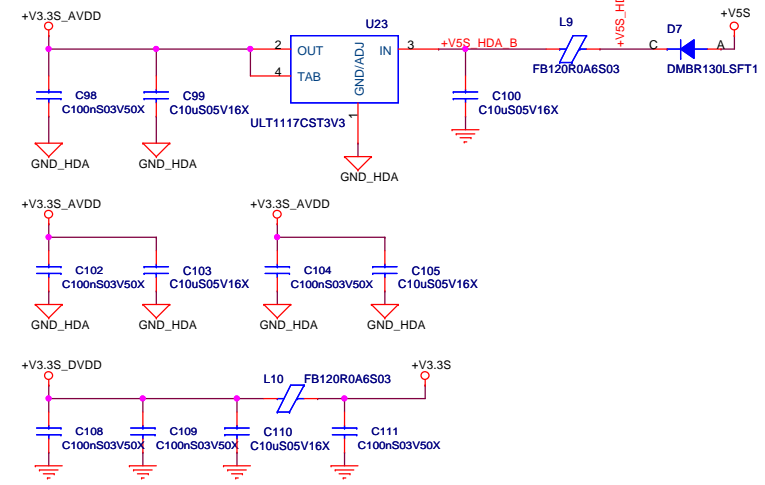


SPDIF



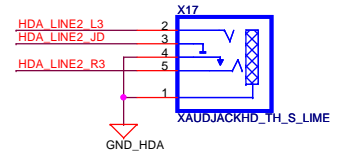
Tied at one point only under the codec or near the codec

AUDIO POWER

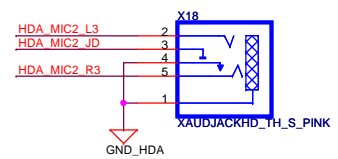


AUDIO I/O CONNECTOR

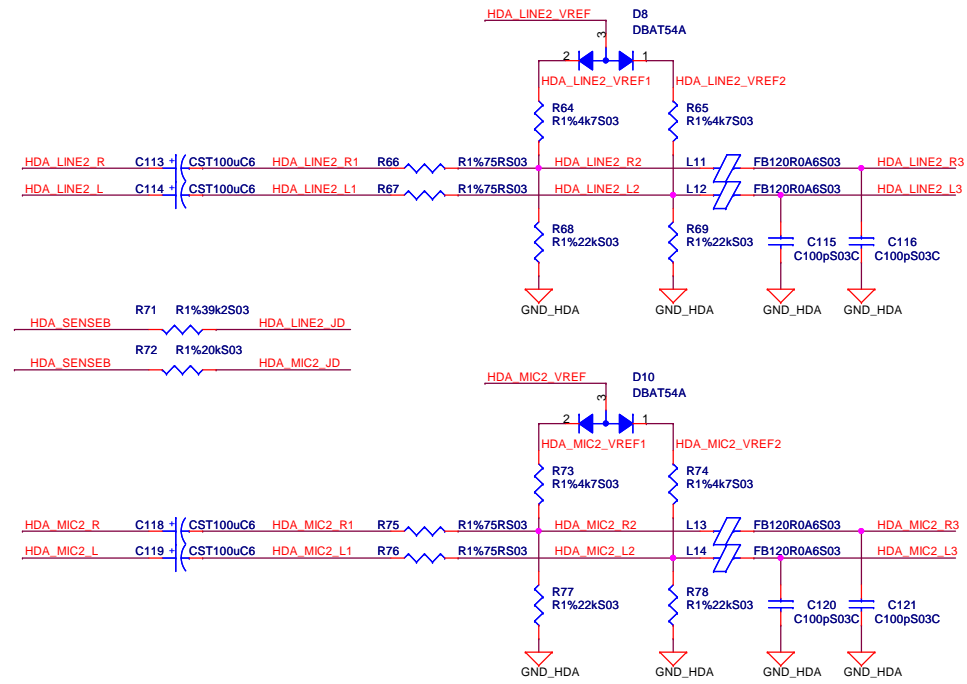
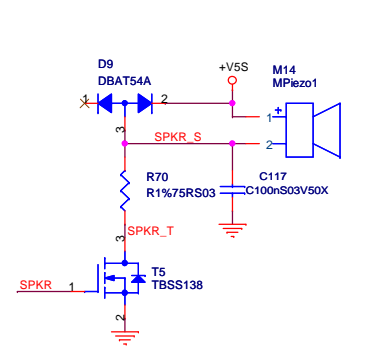
LINE - OUT (Lime); RETASKING LINE-IN, MIC-IN



MIC-IN (Pink); RETASKING LINE-OUT, LINE-IN



PC BEEP



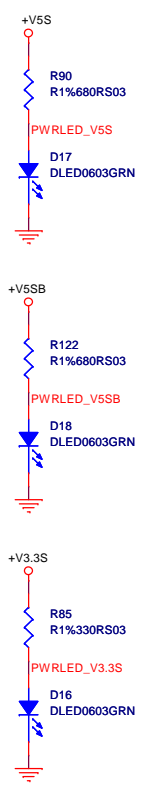
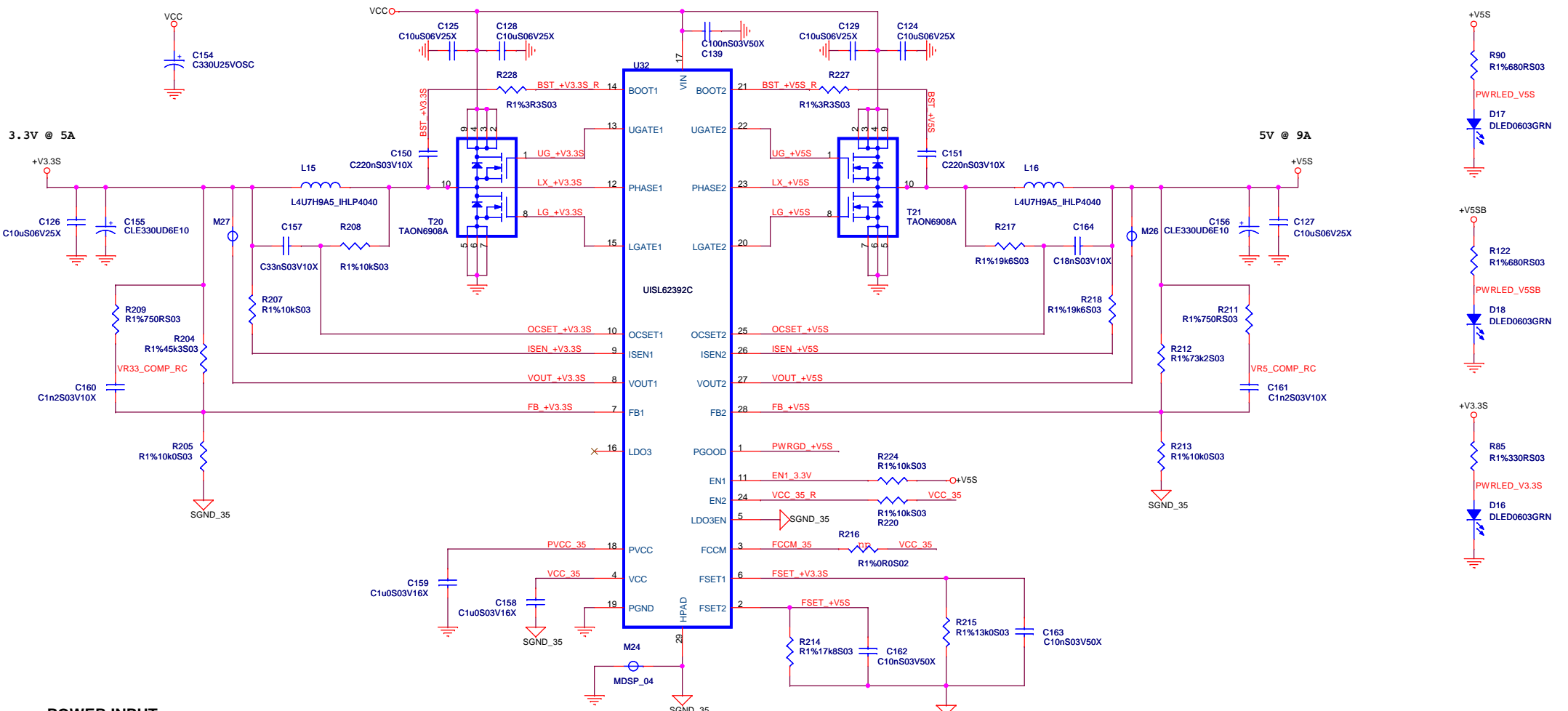
<Core Design>

Congatec AG
 Auwiesenstrasse 5
 D-94469 Deggendorf
 Germany

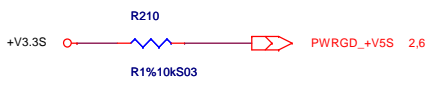
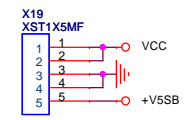
the rhythm of embedded computing

Title: HD AUDIO

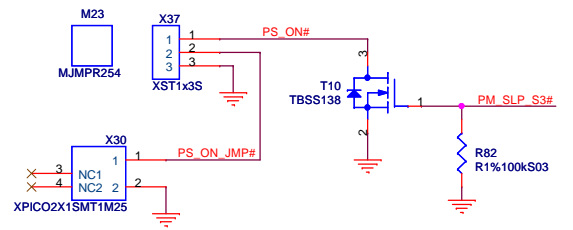
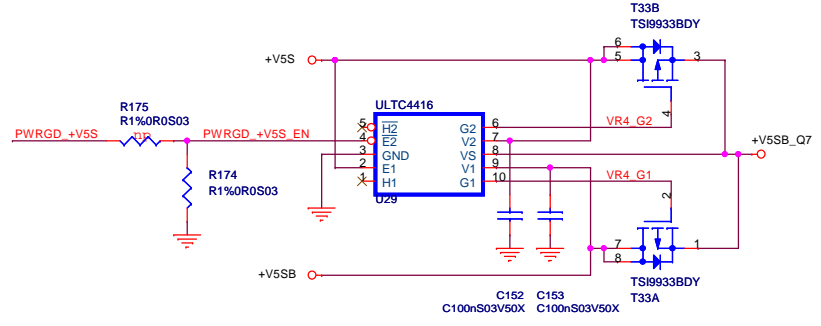
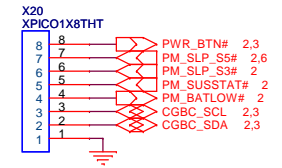
Size A3	Document Number QMCCB	Created	Rev X.0
Date: Tuesday, June 07, 2011	Sheet 10	of 12	




POWER INPUT



POWER CONTROL



Congatec AG Auwiesenstrasse 5 D-94469 Deggendorf Germany			
Title POWER			
Size A3	Document Number QMCB	Created LKR	Rev X.0
Date: Tuesday, June 07, 2011	Sheet 11	of 12	