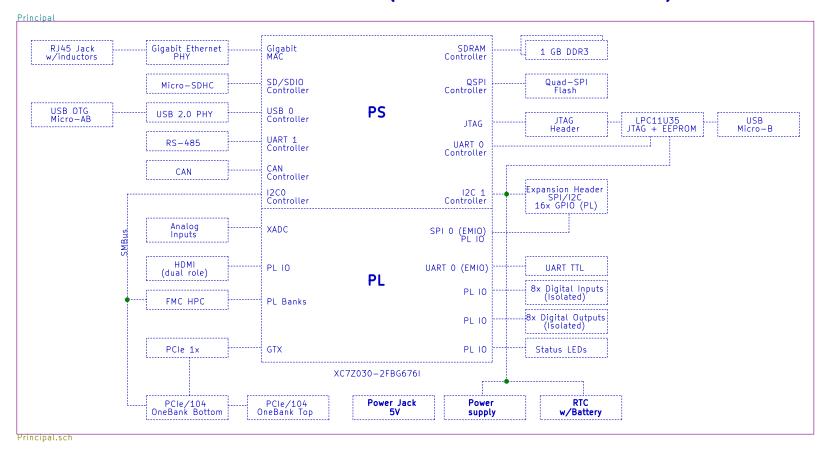
Computadora Industrial Abierta Argentina CIAA-ACC Xilinx XC7Z030 (2x Cortex A9 + Kintex-7 FPGA)







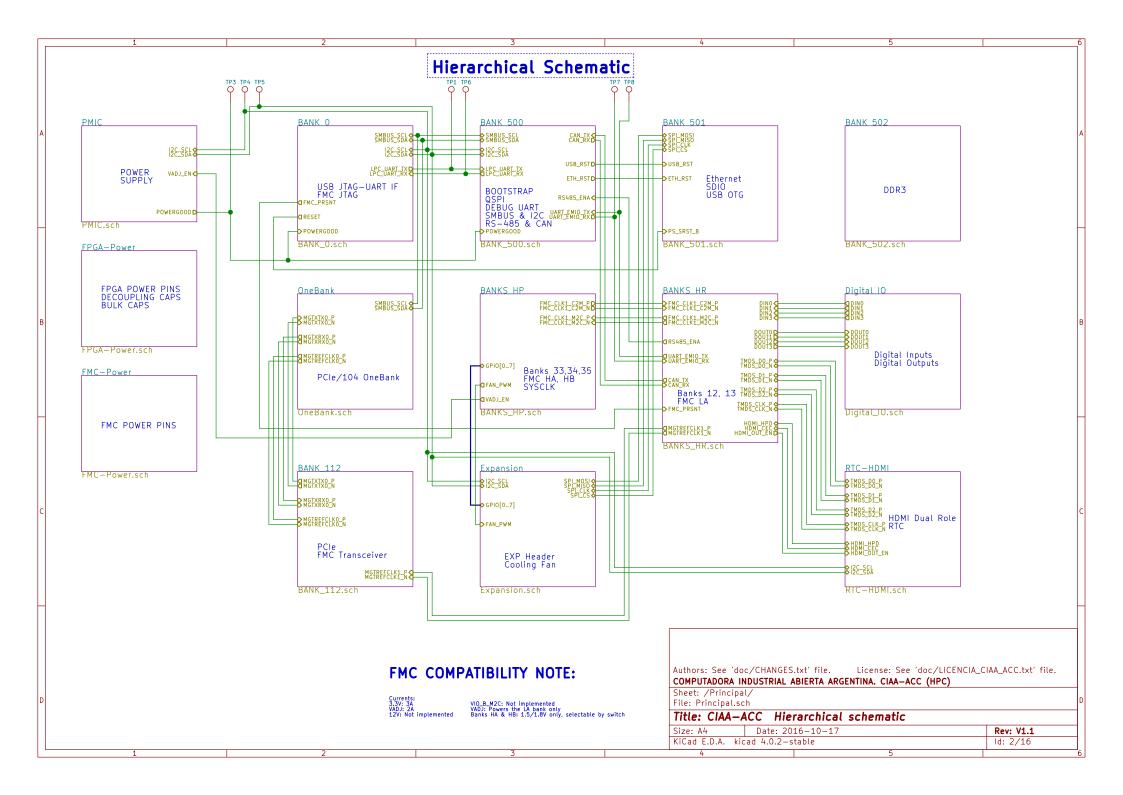


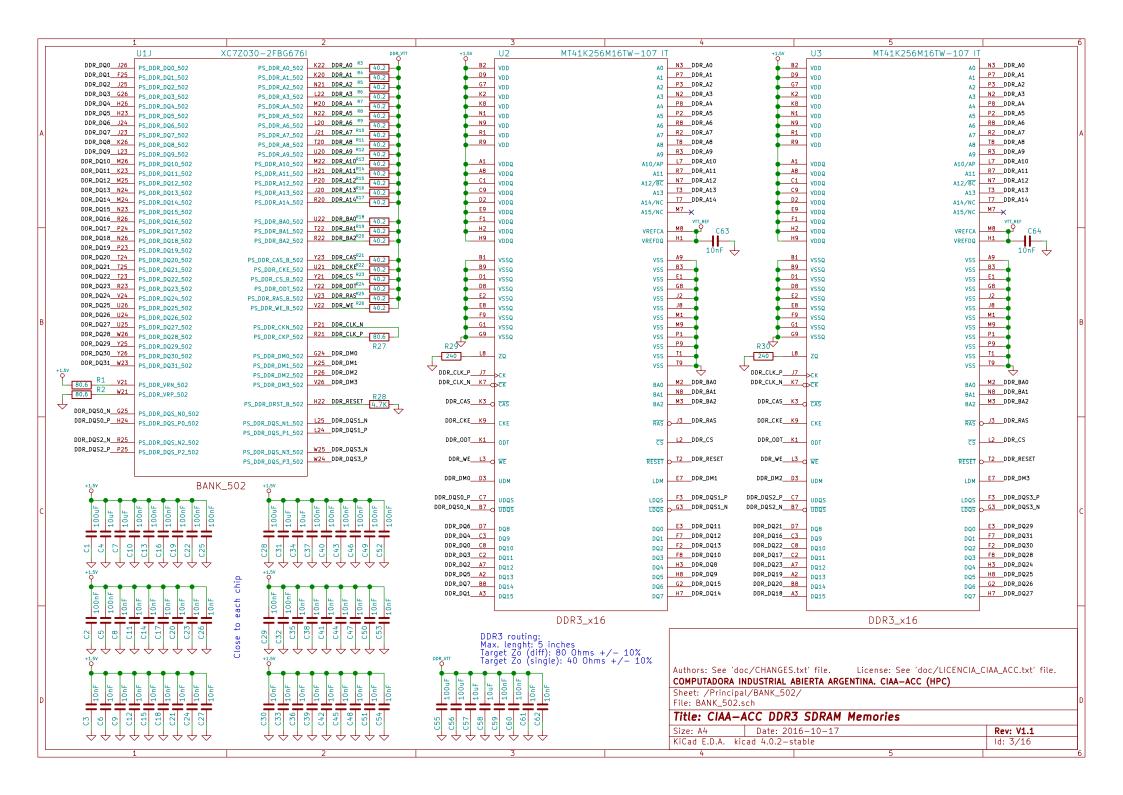
Authors: See 'doc/CHANGES.txt' file. License: See 'doc/LICENCIA_CIAA_ACC.txt' file. COMPUTADORA INDUSTRIAL ABIERTA ARGENTINA. CIAA—ACC (HPC)

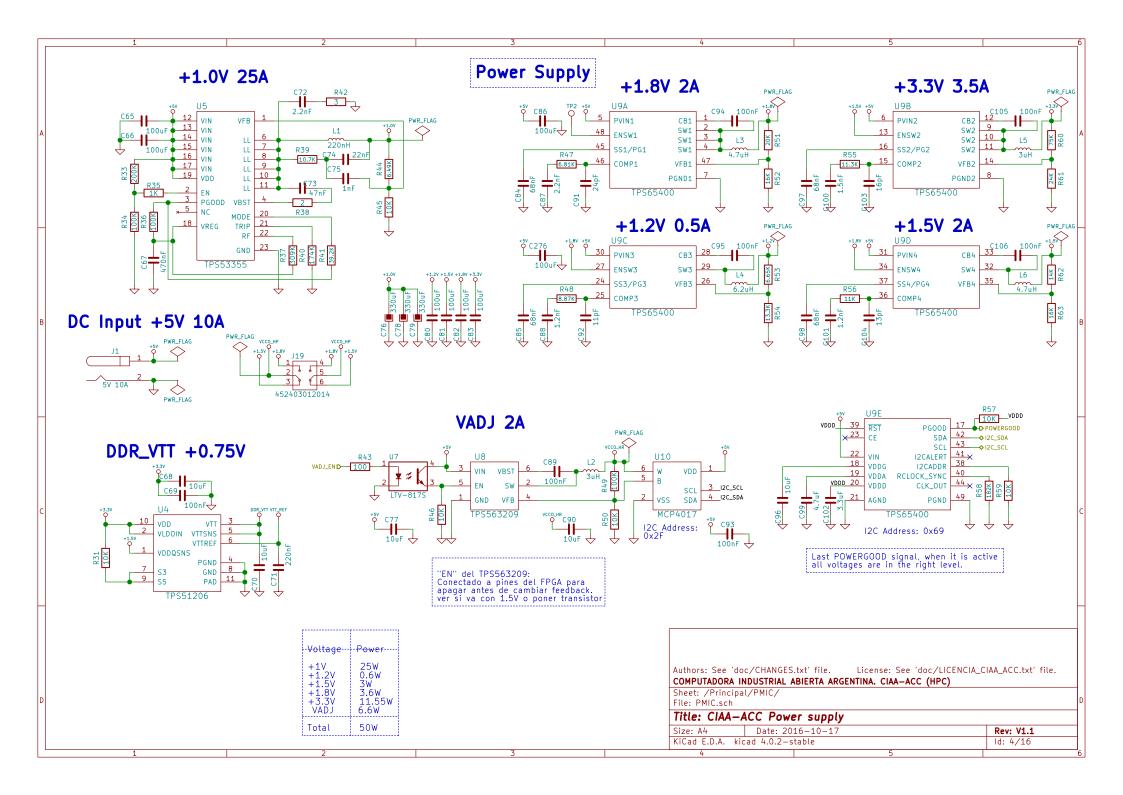
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Title: CIAA-	ACC	Block	Diagram

Size: A4	Date: 2016-10-	-17	Rev: V1.1
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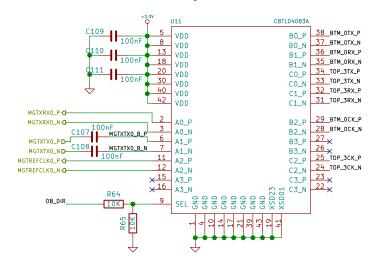


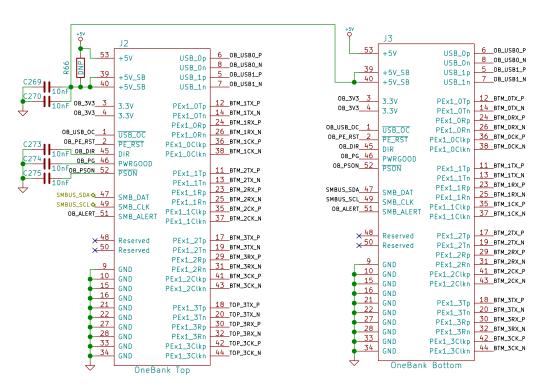


PCle/104 OneBank Connector

H1 H3 ⊗ ⊗ H2 H4 ⊗ ⊗ Holes PCIe 104

Mux/Demux Switch





PCIe OneBank device routing: Max. lenght: 4 inches Target Zo (diff): 85 Ohms +/- 15% Spacing between links: 20 mils Matching tolerance (intra-pair): 5 mils Matching tolerance (inter-pair): Not required

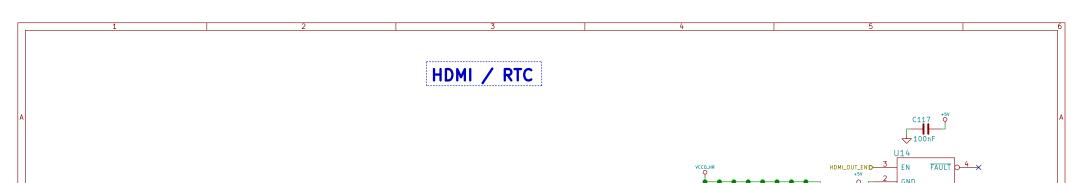
Authors: See 'doc/CHANGES.txt' file. License: See 'doc/LICENCIA_CIAA_ACC.txt' file. COMPUTADORA INDUSTRIAL ABIERTA ARGENTINA. CIAA—ACC (HPC)

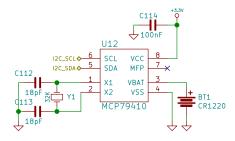
Sheet: /Principal/OneBank/

File: OneBank.sch

	Title:	CIAA-ACC	PCIe/104	OneBank	Connector
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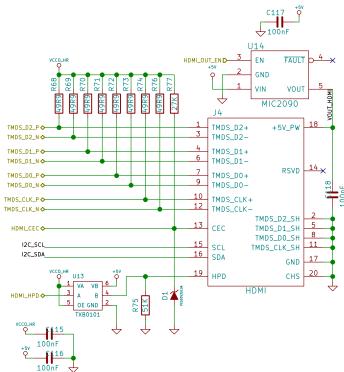
Size: A4	Date: 20:	16-10-17		Rev: V1.1	
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I2C Addresses: 0x6F & 0x57

Real Time Clock



HDMI DUAL ROLE

Note for HDMI: VCCO_HR must be 3.3V

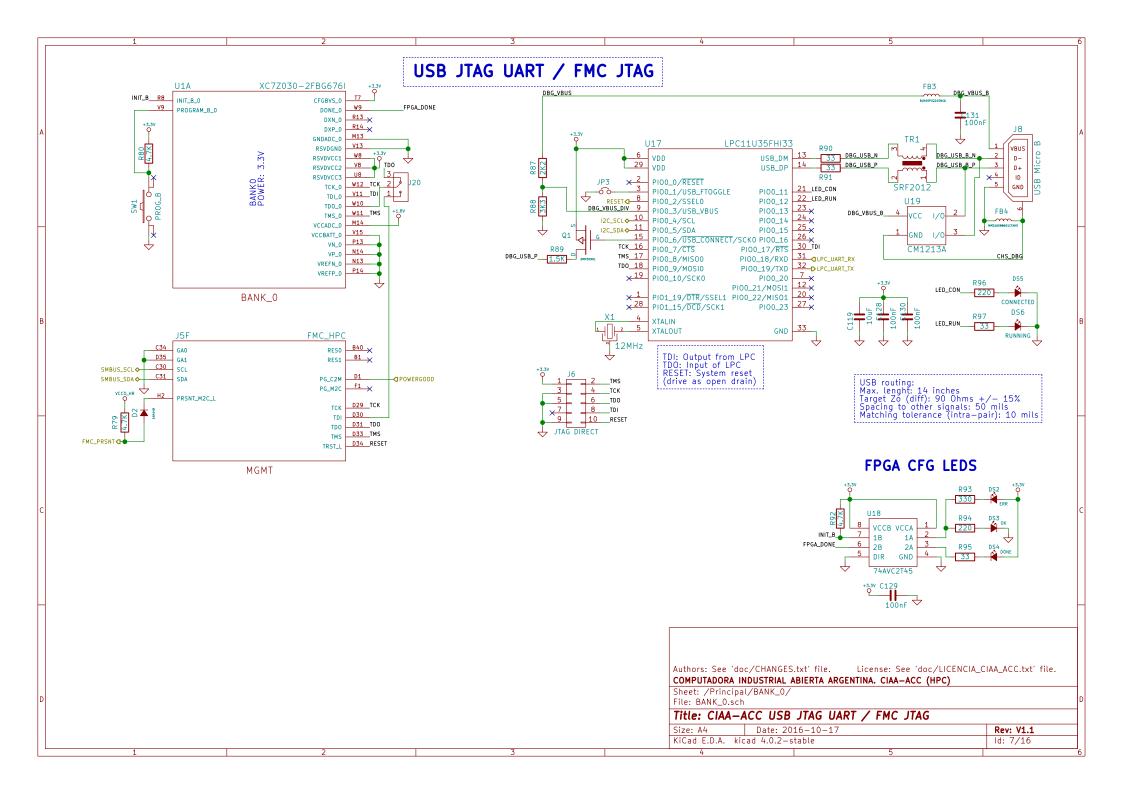
Authors: See 'doc/CHANGES.txt' file. License: See 'doc/LICENCIA_CIAA_ACC.txt' file. COMPUTADORA INDUSTRIAL ABIERTA ARGENTINA. CIAA—ACC (HPC)

Sheet: /Principal/RTC-HDMI/

File: RTC-HDMI.sch

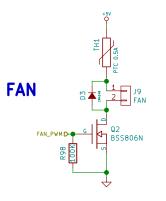
Title:	CIAA-A	CC HDMI	Dual	Role
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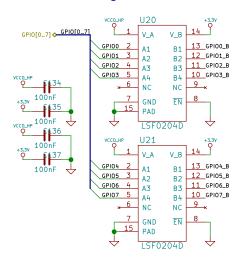
	Size: A4	Date: 2016-10-17		Rev: V1.1	
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			-		

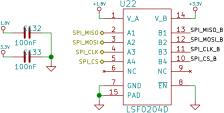


Expansion Header / FAN Connector

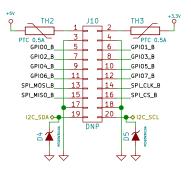
Voltage level translator







Expansion Header



 $\begin{array}{ll} \text{GPIO Only available when} \\ \text{VCCO_HP} = 1.8 \text{V} \end{array}$

Authors: See 'doc/CHANGES.txt' file. License: See 'doc/LICENCIA_CIAA_ACC.txt' file. COMPUTADORA INDUSTRIAL ABIERTA ARGENTINA. CIAA—ACC (HPC)

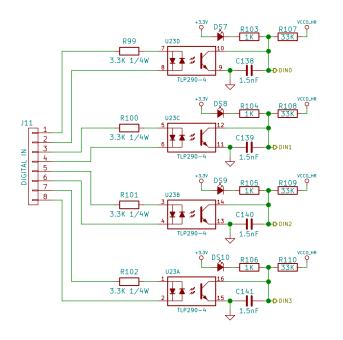
Sheet: /Principal/Expansion/

File: Expansion.sch

Title: CIAA-ACC Expansion Header (GPIO, SPI, I2C) / FAN Connector

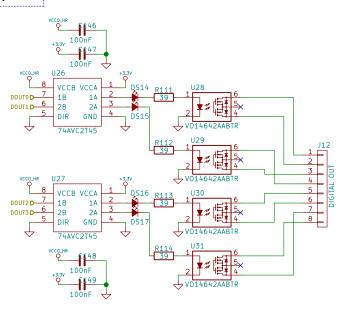
Size: A4	Date: 2016-10	-17	Rev: V1.1
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Digital Inputs and Outputs



ISOLATED DIGITAL INPUTS

Range: 12 to 24 V



ISOLATED DIGITAL OUTPUTS

Range:

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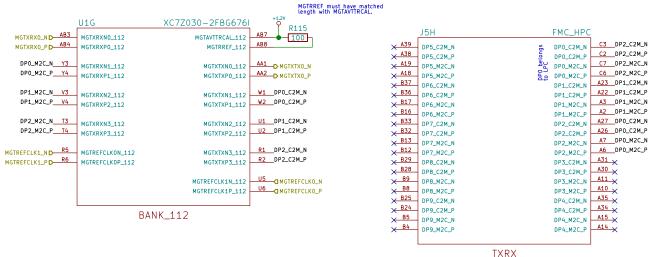
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Title: CIAA-ACC Digital Inputs and Outputs

 Size: A4
 Date: 2016-10-17
 Rev: V1.1

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 Id: 9/16

PCle / FMC Transceiver



Coupling capacitor for transceivers must be in FMC mezzanine card.

PCIe routing: Target Zo (diff): 85 Ohms +/- 15% Spacing between links: 20 mils Matching tolerance (intra-pair): 5 mils Matching tolerance (inter-pair): Not required

Authors: See 'doc/CHANGES.txt' file. License: See 'doc/LICENCIA_CIAA_ACC.txt' file. COMPUTADORA INDUSTRIAL ABIERTA ARGENTINA. CIAA-ACC (HPC)

Sheet: /Principal/BANK_112/

File: BANK_112.sch

Title: CIAA-AC	C FPGA	PCIe /	/ FMC	transceiver
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Size: A4	Date: 2016-10-17		Rev: V1.1
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