

These components are located in their own RF shielded compartment

Bottom compartment of enclosure houses RFD4411

The MaxID RFID reader consist of the following PCBs:
 RFD4411 - Digital section, Power supply, Digital decoder (FPGA), User Interface
 RFM4410 - RF synthesizer, RF power amp. , Base Band signal conditioning

The Digital and RF PBCs are physically separated from each other via an aluminium section

The RF section is also further separated from each other via aluminium compartments.

U_BlockDiagram_4411_cpu
 BlockDiagram_4411_cpu.SCHDOC

U_BlockDiagram_4411_fpga1
 BlockDiagram_4411_fpga1.SCHDOC

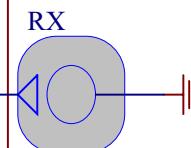
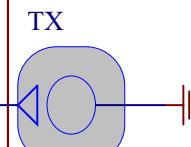
U_BlockDiagram_4411_psu
 BlockDiagram_4411_psu.SCHDOC

Top compartment of enclosure houses RFM4410

U_BlockDiagram_4411_synth
 BlockDiagram_4411_synth.SCHDOC

U_BlockDiagram_4411_PA
 BlockDiagram_4411_PA.SCHDOC

U_BlockDiagram_4411_baseband
 BlockDiagram_4411_baseband.SCHDOC



Title: MaxID_4411 Blockdiagram

Size: A3 Number: RM100_4411 Revision: 00

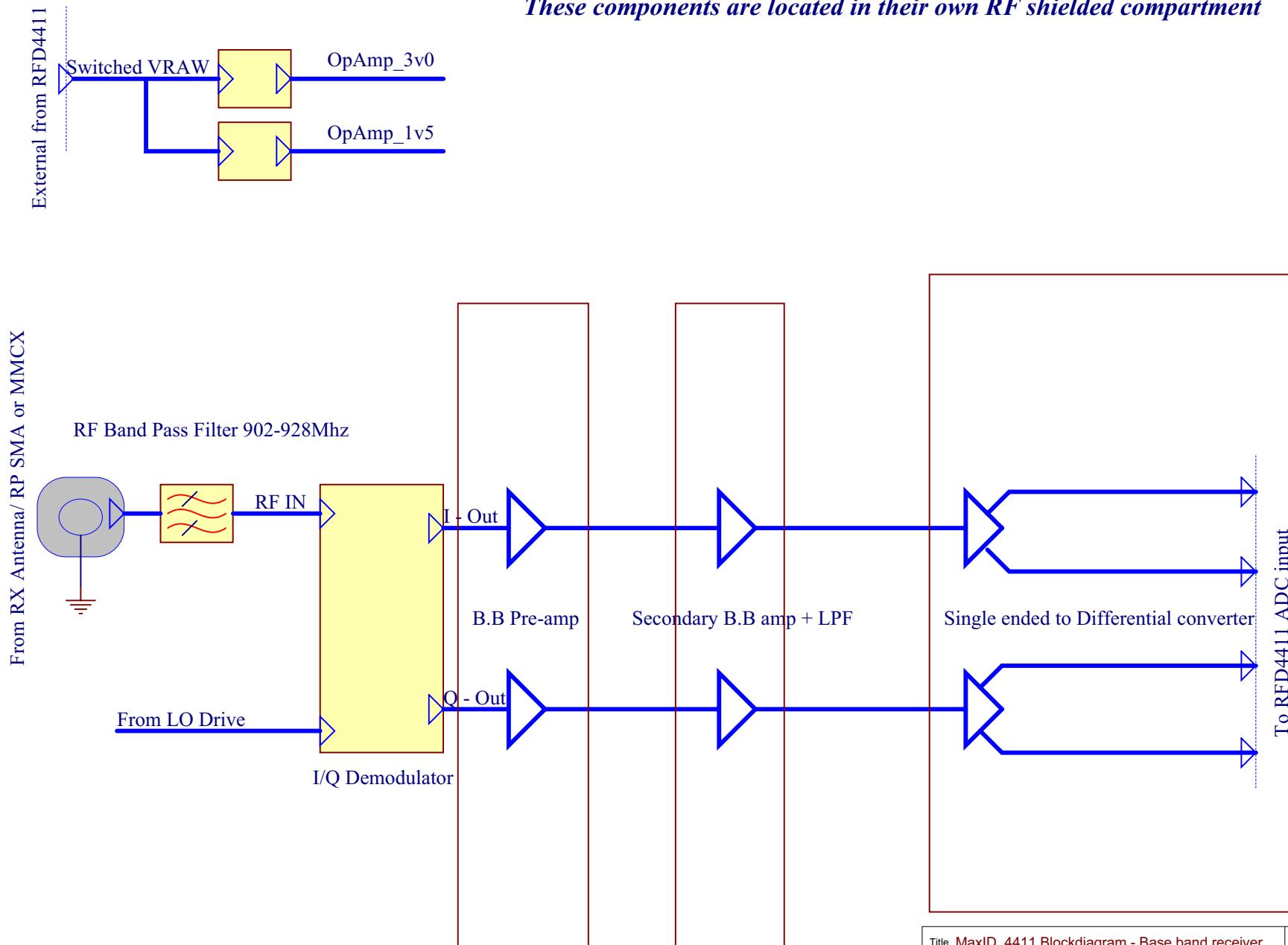
Date: 7/20/2005 Time: 2:14:19 PM Sheet 1 of 7

File: C:\work\Protel\Projects\MAXID_DXP\maxid_4411\Documents\PROJ\BlockDiagram_4411.SCHDOC

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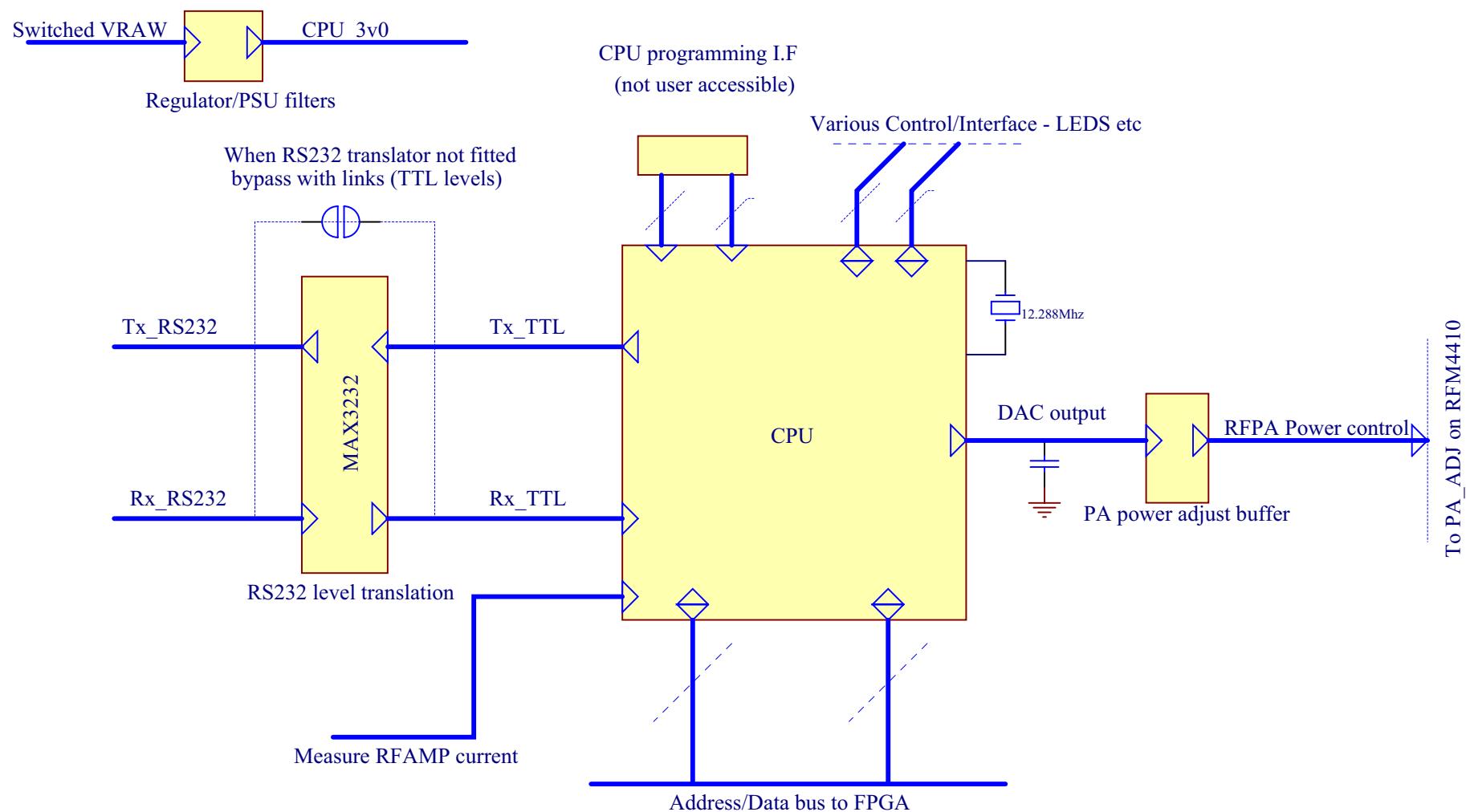
Title: MaxID_4411 Blockdiagram - Base band receiver

Size: A3 Number: RM100_4411 Revision: 00

Date: 7/20/2005 Time: 2:14:19 PM Sheet 6 of 7

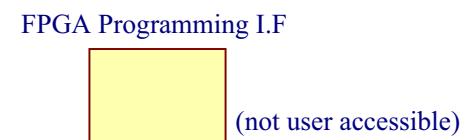
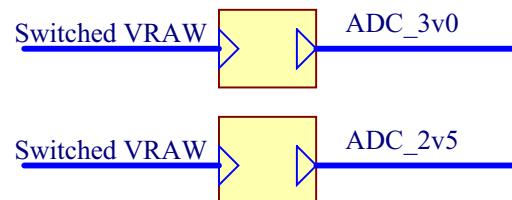
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Title MaxID_4411 Blockdiagram - CPU and Interface		
Size: A3	Number: RM100_4411	Revision: 00
Date: 7/20/2005	Time: 2:14:20 PM	Sheet 2 of 7
File: C:\work\Protel\Projects\MAXID_DXP\maxid_4411\Documents\SCHBlockDiagram_4411_cup.SCHDOC		

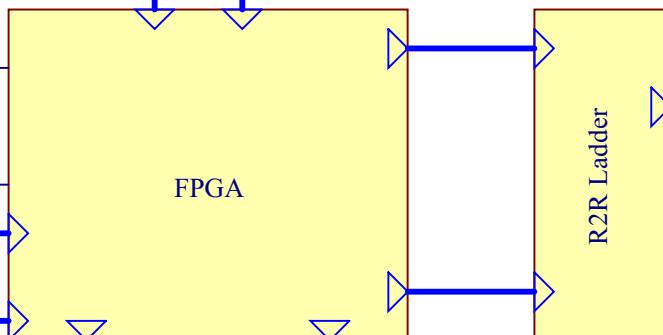
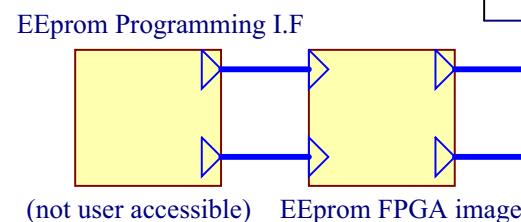




Signal Conditioning/Data Modulation

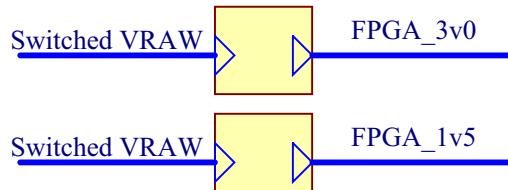
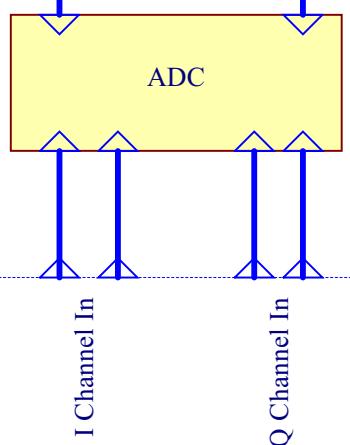
RFPA Modulation

To PA_MOD on RFM4410



R2R Ladder

Buffer

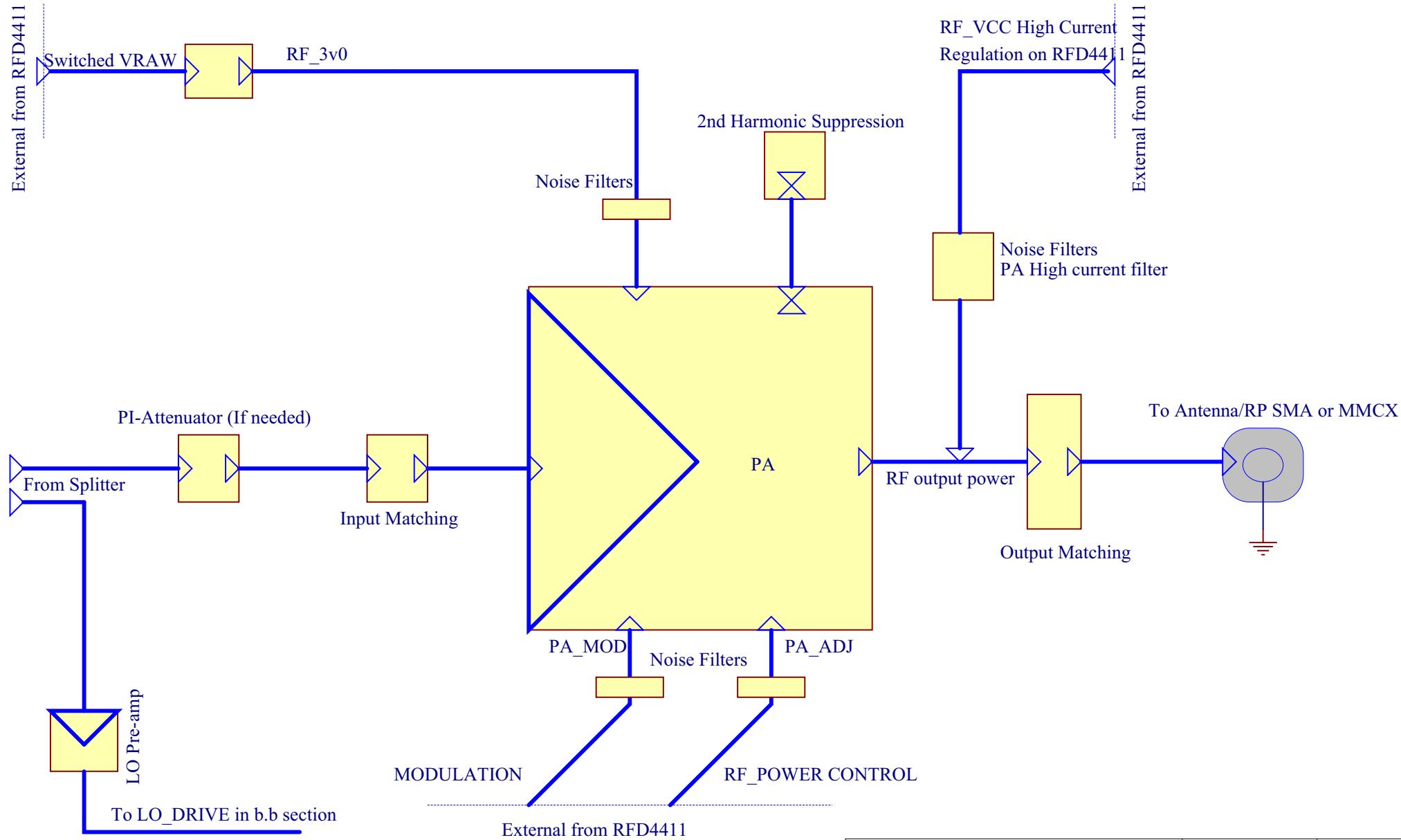


Differential inputs from RFM4410

Title MaxID_4411 Blocdiagram - FPGA/ADC interface		
Size: A3	Number: RM100_4411	Revision: 00
Date: 7/20/2005	Time: 2:14:20 PM	Sheet 3 of 7
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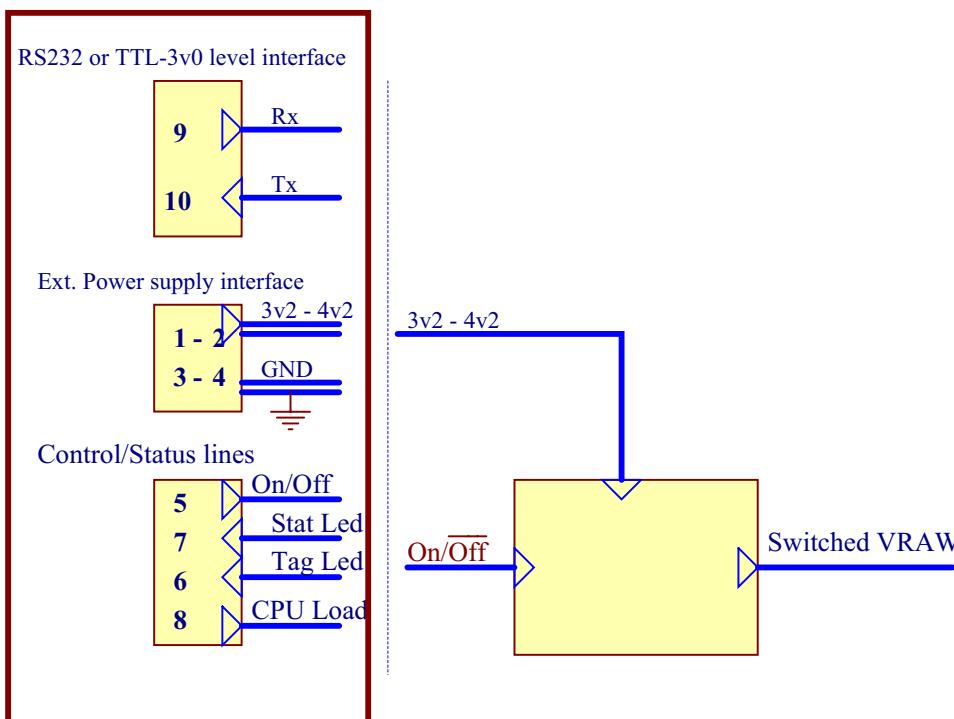
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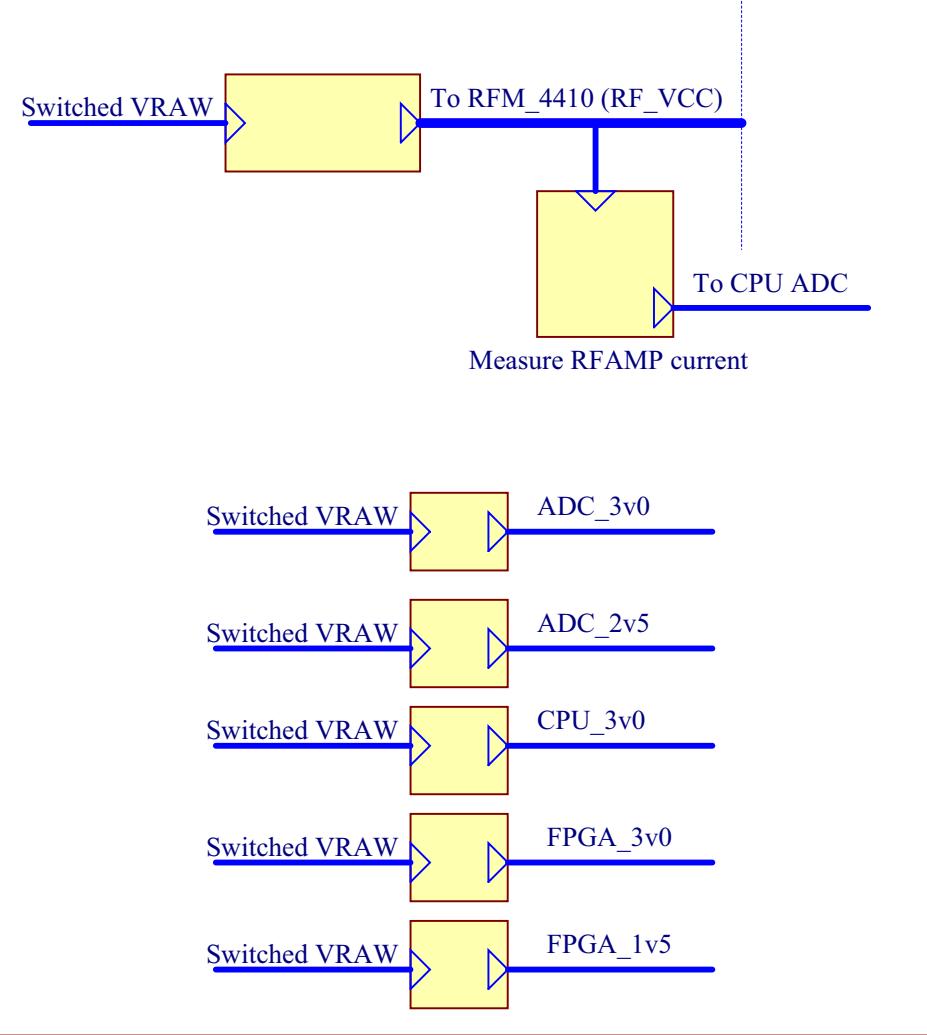
Title MaxID_4411 Blockdiagram - RF Power Amp			MaxID Limited Quattro House, Lyon Way
Size: A3	Number: RM100_4411	Revision: 00	Frimley Surrey GU16 7ER United Kingdom
Date: 7/20/2005	Time: 2:14:20 PM	Sheet 5 of 7	
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 MaxID

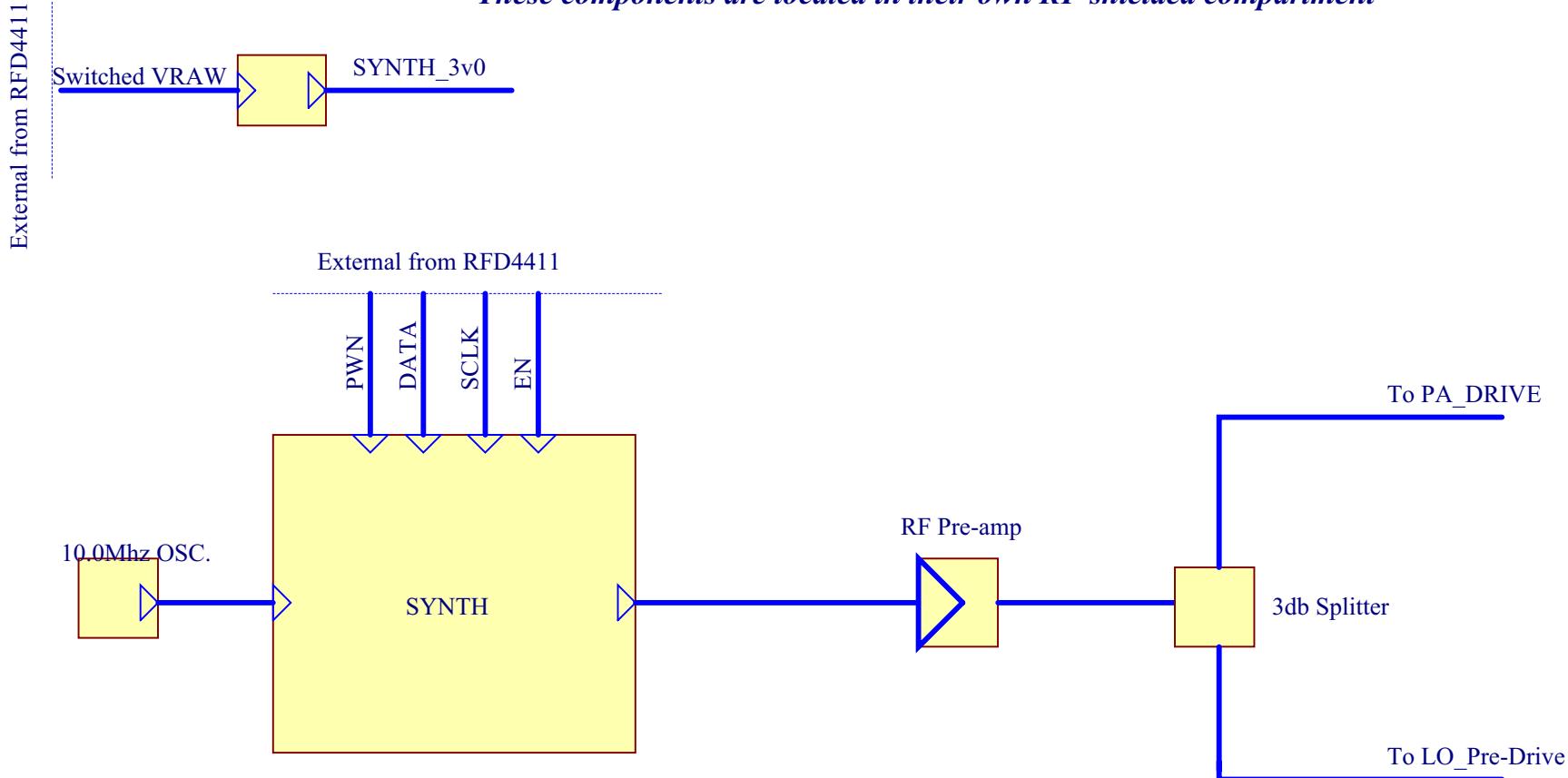
External User interface



Regulators/PSU filters



These components are located in their own RF shielded compartment



Title: MaxID_4411 Blockdiagram - RF Synth

Size: A3 Number: RM100_4411 Revision: 00

Date: 7/20/2005 Time: 2:14:21 PM Sheet 4 of 7

File: C:\work\Protel\Projects\MAXID_DXP\maxid_4411\Documents\PROJ\BlockDiagram_4411_synth.SCHDOC

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