

DA1468x/DA1510x Reference Design

Design Name	DA1468x/1510x DB AQFN _FEM vD
Ref. Number	224-23-D
Version	D1
Date	November, 7, 2016
Designer	KL

History Table

Version	Date	Comments
A	12/August / 2015	Initial Schematic
B	12/October / 2015	Update SKY66112-11 schematic symbol according to 203225C version of Skyworks R54 change value to NP R61 change value to 10Mohm
B1	07/Jan / 2016	Make U4, R1 NP
C	15/Apr / 2016	1. Remove unused parts 2. Change pin assigment for FEM ctrl signals 3. Move flash power supply to V18P 4. Add dynamic switching circuit for controlling TX FEM Ppower - analog switch (U6) - two FET circuit (Q1,Q2) - discharging circuit from V33 to V18 5. Add ferrite bead to VCC2_PA 6. Add L5 in order to have a pi-network for resistive pad 7. Add debug connector (J82) 8. Add test points for VVC2_FEM, VBAT1,2 9. Add power supply for VCC2_FEM from V33_FEM=VBAT+, add R75,R76 10. Remove coin cell holder, add LiPoLy connector 11. Make U4 populated, U3 no populated 12. Add block diagram
D	18/July / 2016	Change pin assignment for J81 (Li-Poly Bat Connector) Change U4 flash part number to W25Q80EWSNIG
D1	23/Sep / 2016	Update notes for separate configuration for da1468x/da1510x For da1468x: unpopulate C26, C27, C28,C 29, C30, C31, Q1, Q2, Q3, R62, R63, R68, R69, R71, R72, R75, R76, U6 Populate R73 For da1510x: unpopulate C29, C30, C31, R68, R69, R73, R76, U6 Populate R75 Change C28 value to 1uF from 220nF, Z4 to 1.8pF. 7/Nov / 2016 Change R73 value from 0 Ohm to 16.5 Ohm.

Variant Mode Info

This schematic is valid for both da1468x and da1510x SoC with minor changes in the placed components. The different component configuration can be displayed with the use of the variant mode. In order to enable variant mode use :

View-->Variant Mode View

Configuration note

NOTE box

Changes in
this Version.

da1468x



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Title : DA1468x/1510x DB AQFN _FEM vD

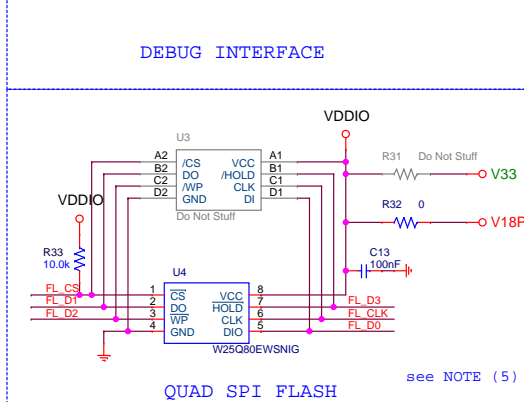
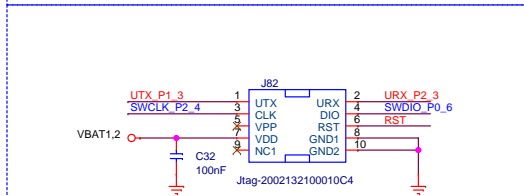
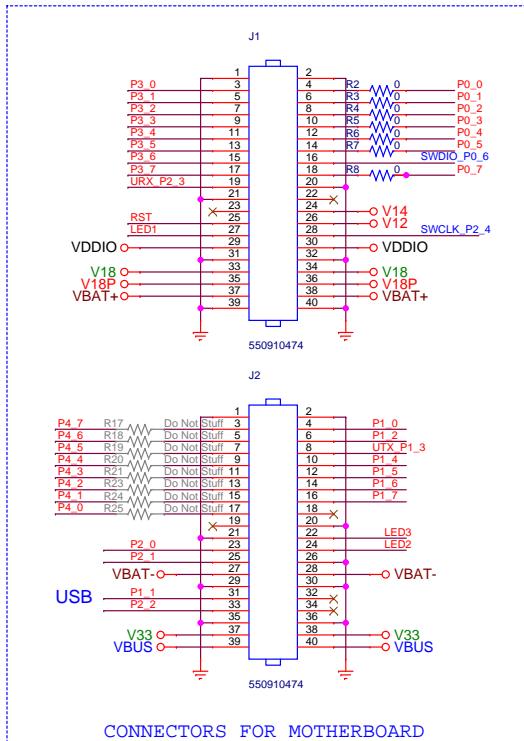
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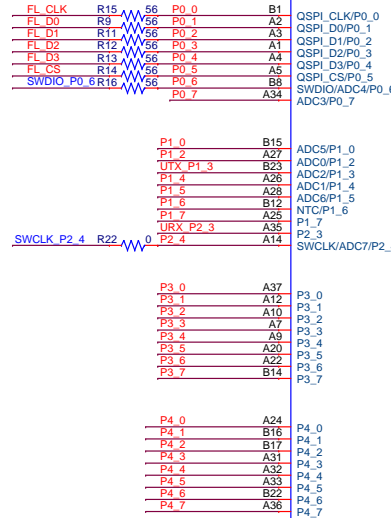
Date: Monday, November 07, 2016

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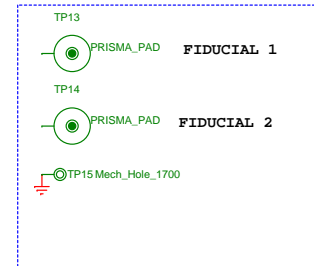
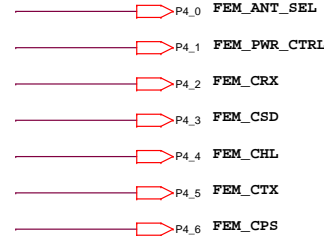
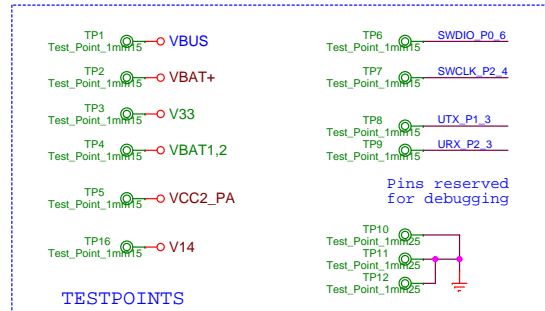


NOTE 5:

da1468x/da1510x SoC version	Flash configuration
da14680 da14682 da15100	U4, R33 no populated
da14681 da14683 da15101	U4, R33 populated



NOTE 6:
VBAT+ comes from PRO-MB and has a range
from 1.8 to 4.3V

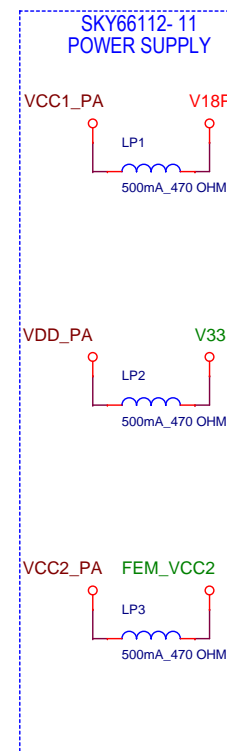
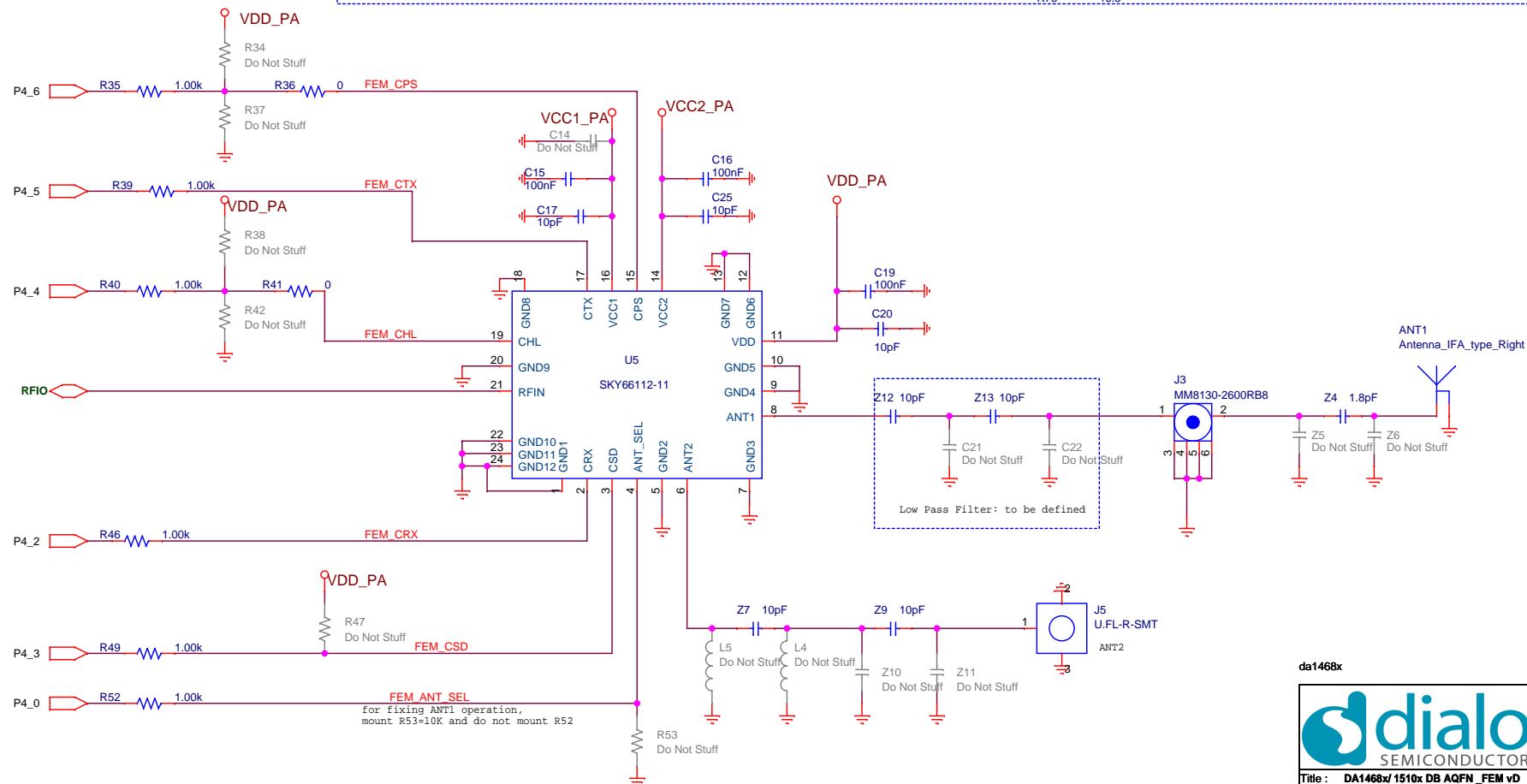
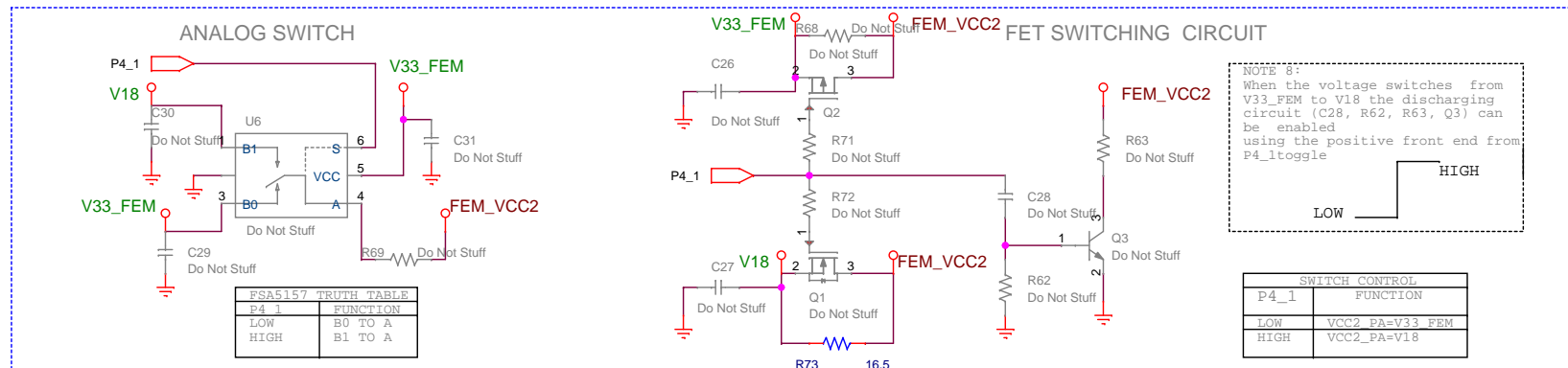


da1468x

NOTE 7:

SKY66112- 11 TX OUTPUT POWER CONTROL

dal468x/ dal510x SoC version	sky66112-11 power control configuration
dal4680	R73 populated
dal4681	ANALOG SWITCH no populated
dal4682	FET SWITCHING CIRCUIT no populated
dal4683	
dal5100	R73 no populated
dal5101	ANALOG SWITCH no populated
	FET SWITCHING CIRCUIT populated



da1468:



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