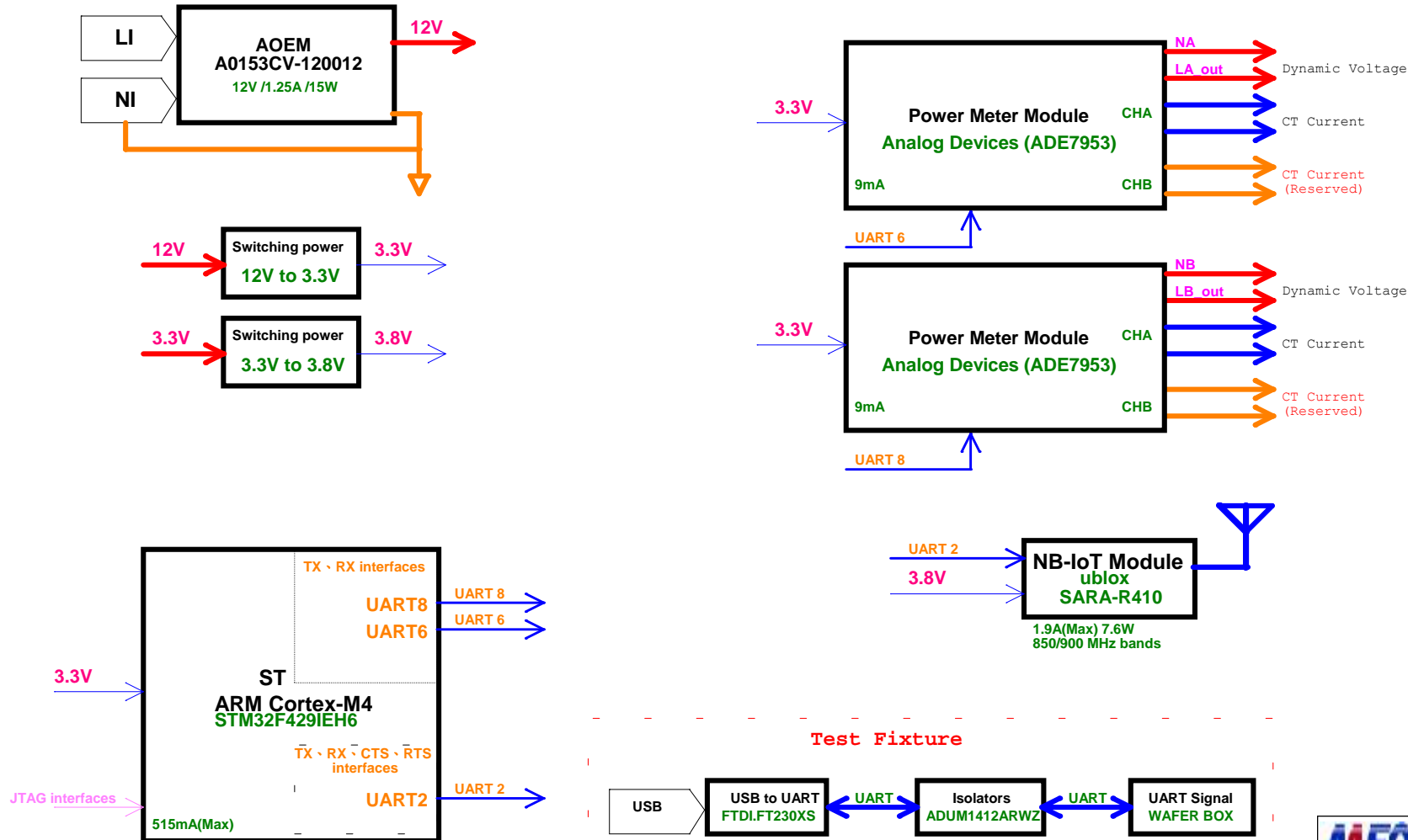


The Power Meter for AC Meter Block Diagram

Project Number : N160201

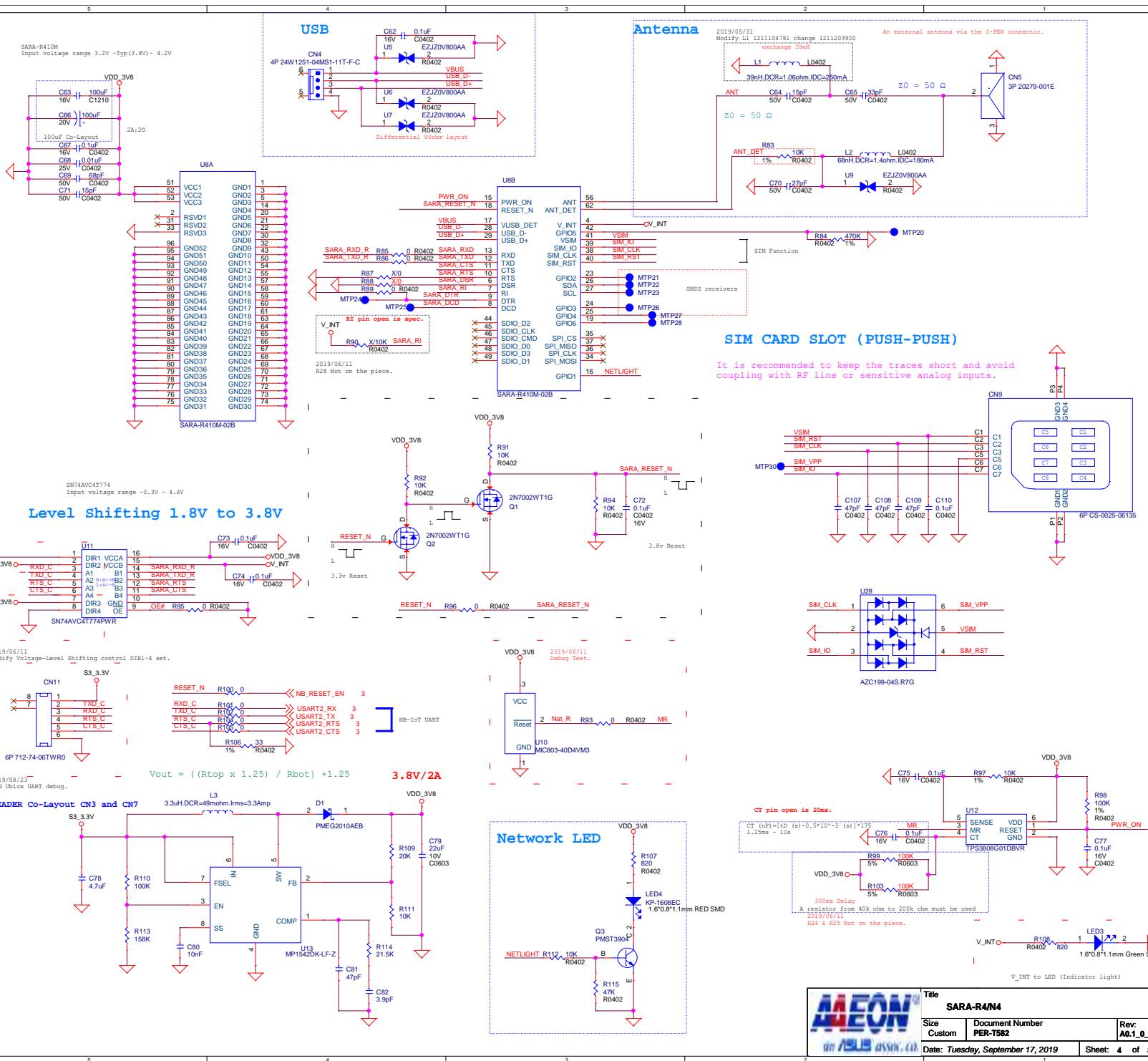
CHA: Over a dynamic range of 3000:1 PGA=22
CHB: Over a dynamic range of 1000:1 PGA=16

220V or 110V / 20A

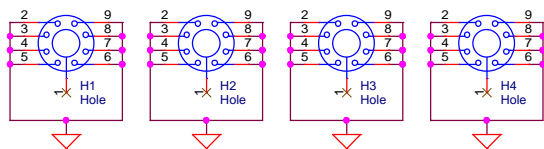


PCB STACK :
Impedance 50ohm +/-10%.(Single)

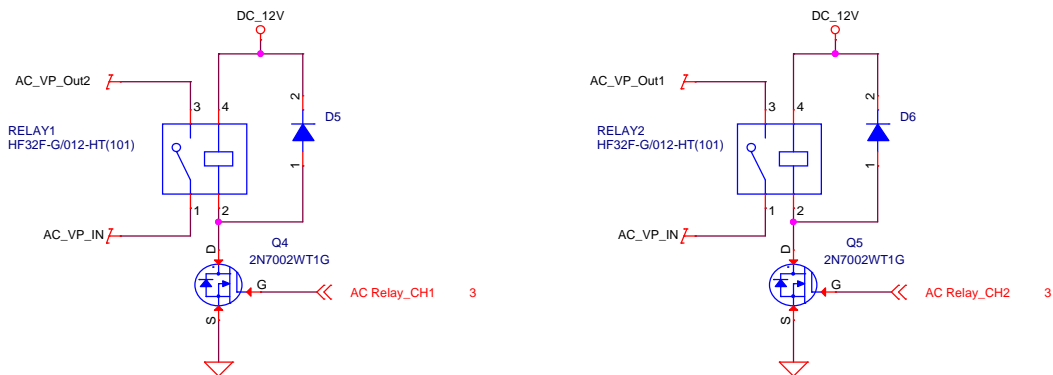
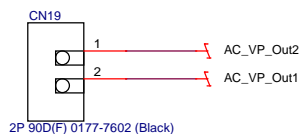
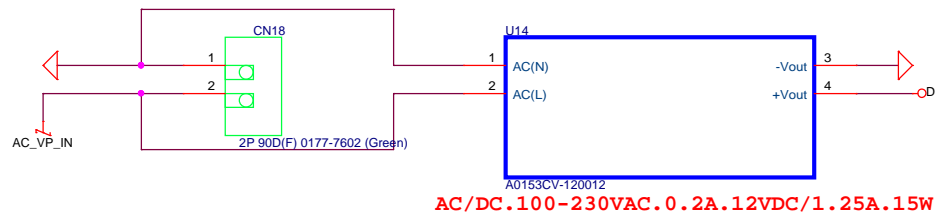
Layer 1 : TOP Signal
Layer 2 : GND
Layer 3 : Power
Layer 4 : Bottom Signal



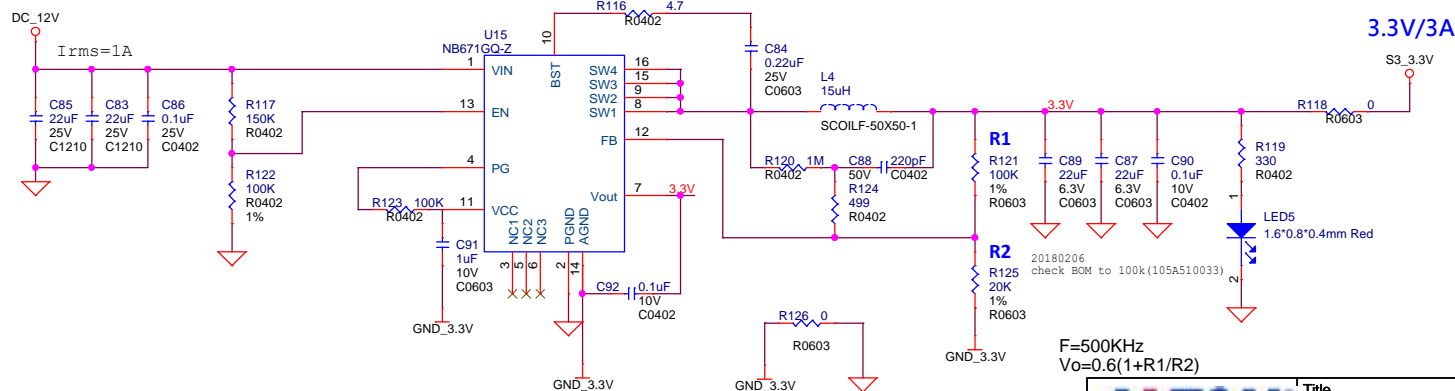
Mounting Holes



AC Power 220V / 25A




12V to 3.3V



Title		
AC Power / DC 3.3V		
Size B	Document Number PER-T582	Rev: A0.1_0_0
Date: Tuesday, September 17, 2019		Sheet: 5 of 8

5		4		3		2		1	
Version	Change Item Description	Page	Version						Page
A0.1	AC Power & AC Power Meter & Sub-1G design all PCB.								
A0.2	Modify AtechOEM design AC 110V~220V Power to DC 12V.	P05							
	Modify add GPS module QUECTEL.L76-M33.	P06							
	Modify dimming control apply Jumper change one features DALI and 1~10V.	P05							
	Modify Light Sensor board A0.1 90D exchange A0.2 is on board.	P02							
A0.3	Modify CN2 add NB-IOT moudel power 4V ange Gateway 12V is Jumper change voltage.	P02							
	Modify Sub-1G TI CC1310 exchange stamp hole moudel.	P03							
	Modify add GPS module QUECTEL.L76-M33 change GPS_L80-R modules.	P03							
	Modify SLC-001 DC power changed 24V~12V to 3.3V for Sub-1G mode and 24V~12V to 4V for NB-iot.	P05							
	Modify SLC-001 CN8 for AtechOEM design AC 110V~220V Power and AC power meter signal.	P05							
	Modify SLC-001 NEMA controller board use cable.	P06							
A0.4	Modify everlight required add RTC for NB-iot & G-sensor features.	P07							
A0.5	20180717 modify Add pull up (R165) 10K for SQW/INT.	P07							
			A1.1						



Title

Revision History


Size B

Document Number SLC Series

Rev: A0.5_0_0

Date: Tuesday, September 17, 2019

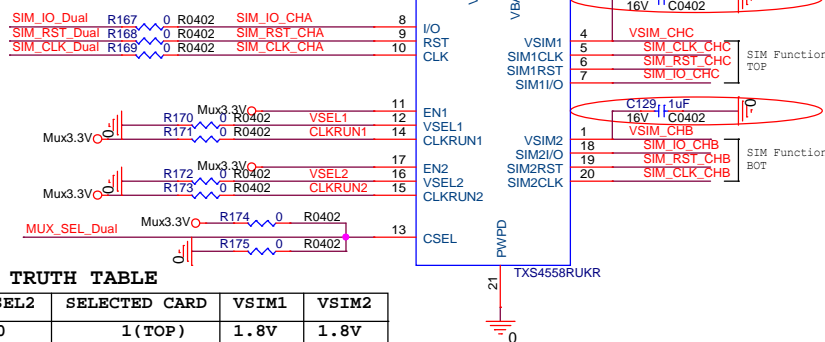
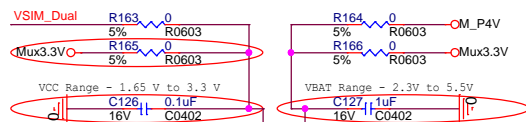
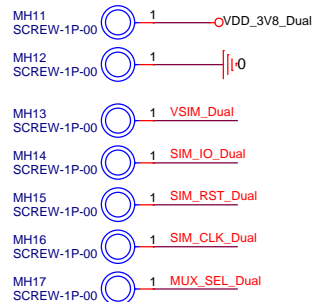
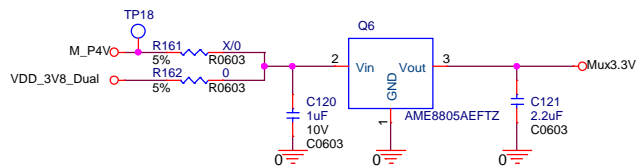
Sheet: 6 of 8



Title

Revision History

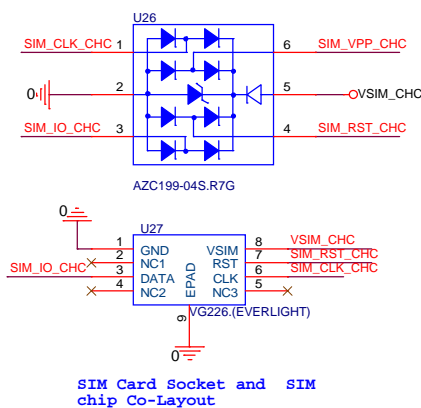
Size B	Document Number SLC Series	Rev: A0.5_0.0
Date: Tuesday, September 17, 2019		Sheet: 6 of 8



TRUTH TABLE

CSEL	VSEL1	VSEL2	SELECTED CARD	VSIM1	VSIM2
0	0	0	1 (TOP)	1.8V	1.8V
1	0	0	2 (BOT)	1.8V	1.8V

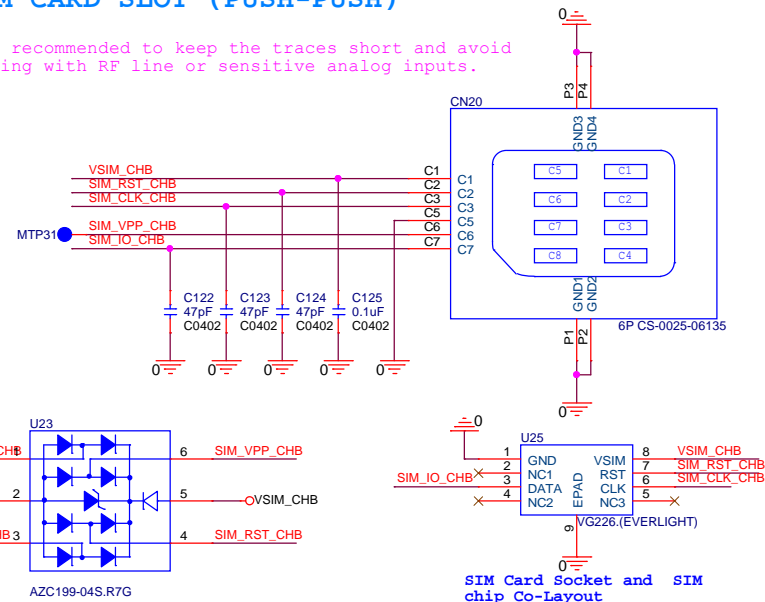
2019/07/31
Mmodify NXP.CBTL02042ABQ change Dual-SIM Card MUX ic



SIM Card Socket and SIM chip Co-Layout

SIM CARD SLOT (PUSH-PUSH)

It is recommended to keep the traces short and avoid coupling with RF line or sensitive analog inputs.



SIM Card Socket and SIM chip Co-Layout

SIM CARD SLOT (PUSH-PUSH)

It is recommended to keep the traces short and avoid coupling with RF line or sensitive analog inputs.

