1. ALL RESISTANCE VALUES ARE IN OHMS, 5% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
3. ALL CRYSTAL & OSCILLATOR VALUES ARE NOMINAL

REV	ECN	DESCRIPTION OF REVISION	DATE
A	11287180	ENGINEERING RELEASE	11/15/2017

VIETMOBILE.VN

D210 MLB - CARRIER (OK3FAB)

LAST_MODIFICATION=15 08:31:02 2017

PAGE	CBA	CONTENTS	SYNC	DATE
1	0	TABLE OF CONTENTS	ALL	10/15/2017
2	1	SYSTEM: BOM TABLES (1/2)	ALL	10/15/2017
3	2	SYSTEM: BOM TABLES (2/2)	ALL	10/15/2017
4	3	SYSTEM: BOM TABLES (3/3)	ALL	10/15/2017
5	4	SYSTEM: Testpoints	ALL	10/15/2017
6	5	SYSTEM: BOOTSTRAPPING	ALL	10/15/2017
7	6	SOC: USB, JTAG, XTAL	ALL	10/15/2017
8	7	SOC - PCIE INTERFACES	ALL	10/15/2017
9	8	SOC: DDR	ALL	10/15/2017
10	9	SOC: NAND	ALL	10/15/2017
11	10	SOC: BB UART	ALL	10/15/2017
12	11	SOC: BB JTAG	ALL	10/15/2017
13	12	SOC: BACKLIGHT	ALL	10/15/2017
14	13	SOC: RF	ALL	10/15/2017
15	14	SOC: CPU/GPU	ALL	10/15/2017
16	15	SOC: PMU	ALL	10/15/2017
17	16	SOC: SENSE	ALL	10/15/2017
18	17	SOC: SENSE SPI	ALL	10/15/2017
19	18	SOC: PCIE Refclk	ALL	10/15/2017
20	19	SOC: MISC	ALL	10/15/2017
21	20	SOC: POWER	ALL	10/15/2017
22	21	SOC: GROUNDS	ALL	10/15/2017
23	22	POWER: SOC Rails (1/2)	ALL	10/15/2017
24	23	POWER: SOC Rails (2/2)	ALL	10/15/2017
25	24	POWER: MEMORY Rails	ALL	10/15/2017
26	25	POWER: Battery Charger	ALL	10/15/2017
27	26	POWER: Battery Connector	ALL	10/15/2017
28	27	POWER: Battery Support	ALL	10/15/2017
29	28	POWER: Battery Charger	ALL	10/15/2017
30	29	POWER: Camera	ALL	10/15/2017
31	30	POWER: Backlight	ALL	10/15/2017
32	31	POWER: Misc	ALL	10/15/2017
33	32	POWER: Sensors	ALL	10/15/2017
34	33	POWER: Audio	ALL	10/15/2017
35	34	POWER: Wireless	ALL	10/15/2017
36	35	POWER: Baseband	ALL	10/15/2017
37	36	POWER: Baseband Support	ALL	10/15/2017
38	37	POWER: Baseband Support	ALL	10/15/2017
39	38	POWER: Baseband Support	ALL	10/15/2017
40	39	POWER: Baseband Support	ALL	10/15/2017
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99	98	POWER: Baseband Support	ALL	10/15/2017
100	99	POWER: Baseband Support	ALL	10/15/2017

BUILD VARIANT	MAIN BOARD VAR	MEMORY	QTY	MISC
DEV	820-xxxx	1 GB LP	2	820-xxxx-A,820-xxxx-B
PVT	820-xxxx	1 GB LP	2	820-xxxx-A,820-xxxx-B
MP	820-xxxx	1 GB LP	2	820-xxxx-A,820-xxxx-B
ALL	820-xxxx	1 GB LP	2	820-xxxx-A,820-xxxx-B

DATE	QTY	ASSEMBLY NO	SERIAL NUMBER PREFIX	ASSEMBLY NO
10/15/2017	1	820-00000-A	N/A	-
10/15/2017	1	820-00000-B	N/A	-

Drawing Title	TABLE OF CONTENTS	Drawing Number	Rev
	SCH_MLB_D210	820-00000	A
Apple Inc.		Size: D (ANSI)	Sheet 1 OF 100

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EEEE Codes

DATE	QTY	ASSEMBLY NO	MANUFACTURING CODE	SERIAL	DESCRIPTION
10/15/15	1	820-00000-A	0000	0000	820-00000-A
10/15/15	1	820-00000-B	0000	0000	820-00000-B

SOC

DATE	QTY	ASSEMBLY NO	MANUFACTURING CODE	SERIAL	DESCRIPTION
10/15/15	1	820-00000-A	0000	0000	820-00000-A

PART NUMBER	MANUFACTURER	DESCRIPTION	DATE CODE	SERIAL NUMBER
338S00000	338S0000	338S0000	1501	0000
338S00000	338S0000	338S0000	1501	0000
338S00000	338S0000	338S0000	1501	0000
338S00000	338S0000	338S0000	1501	0000

NAND

PART NUMBER	MANUFACTURER	DESCRIPTION	DATE CODE	SERIAL NUMBER
338S00000	338S0000	338S0000	1501	0000
338S00000	338S0000	338S0000	1501	0000

SOFT-TERM CAP SUB BOMS

PART NUMBER	SUBSTITUTE	DESCRIPTION	DESIGNATOR
338S00000	338S00000	338S0000	338S00000
338S00000	338S00000	338S0000	338S00000

ITEM	QTY	DESCRIPTION	MANUFACTURER	MFG PART NUMBER	DESIGNATORS
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338S0000	1	0.22UF-20%-4V-X5R-0201	338S0000	338S00000	C1002
338S0000	1	0.22UF-20%-4V-X5R-0201	338S0000	338S00000	C1003
338S0000	1	0.22UF-20%-4V-X5R-0201	338S0000	338S00000	C1004
338S0000	1	0.22UF-20%-4V-X5R-0201	338S0000	338S00000	C1005
338S0000	1	0.22UF-20%-4V-X5R-0201	338S0000	338S00000	C1006
338S0000	1	0.22UF-20%-4V-X5R-0201	338S0000	338S00000	C1007
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338S0000	1	0.22UF-20%-4V-X5R-0201	338S0000	338S00000	C1011
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338S0000	1	0.22UF-20%-4V-X5R-0201	338S0000	338S00000	C1013
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INTARA DIODES SUB BOMS

PART NUMBER	SUBSTITUTE	DESCRIPTION	DESIGNATOR
338S00000	338S00000	338S0000	338S00000

ITEM	QTY	DESCRIPTION	MANUFACTURER	MFG PART NUMBER	DESIGNATORS
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338S0000	1	DIODE-SCHOTTKY-30V-0.5A-SOD323	338S0000	338S00000	D1001
338S0000	1	DIODE-SCHOTTKY-30V-0.5A-SOD323	338S0000	338S00000	D1002

Drawing Title	SYSTEM: BOM TABLES (1/2)	Drawing Number	Rev
		820-00000	A
Apple Inc.		Size: D (ANSI)	Sheet 2 OF 100

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NAND BOM Options

DATE	QTY	ASSEMBLY NO	MANUFACTURING CODE	SERIAL	DESCRIPTION
10/15/15	1	820-00000-A	0000	0000	820-00000-A
10/15/15	1	820-00000-B	0000	0000	820-00000-B

PART NUMBER	MANUFACTURER	DESCRIPTION	DATE CODE	SERIAL NUMBER
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338S00000	338S0000	338S0000	1501	0000
338S00000	338S0000	338S0000	1501	0000
338S00000	338S0000	338S0000	1501	0000
338S00000	338S0000	338S0000	1501	0000

Isolator Switch

PART NUMBER	SUBSTITUTE	DESCRIPTION	DESIGNATOR
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Mamba LDO

PART NUMBER	SUBSTITUTE	DESCRIPTION	DESIGNATOR
338S00000	338S00000	338S0000	338S00000

Load Switch

PART NUMBER	SUBSTITUTE	DESCRIPTION	DESIGNATOR
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338S00000	338S00000	338S0000	338S00000

Crystal Alts

PART NUMBER	SUBSTITUTE	DESCRIPTION	DESIGNATOR
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338S0000	338S0000	338S0000	338S00000

ASSEMBLY NOTE	CONTENT
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338S0000	338S00000
338S0000	338S00000

ESD Caps

PART NUMBER	SUBSTITUTE	DESCRIPTION	DESIGNATOR
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Global R/C Alternates

PART NUMBER	SUBSTITUTE	DESCRIPTION	DESIGNATOR
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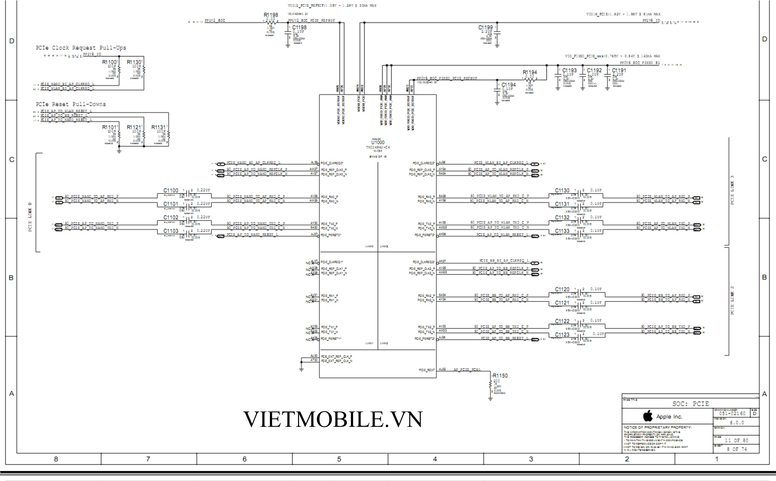
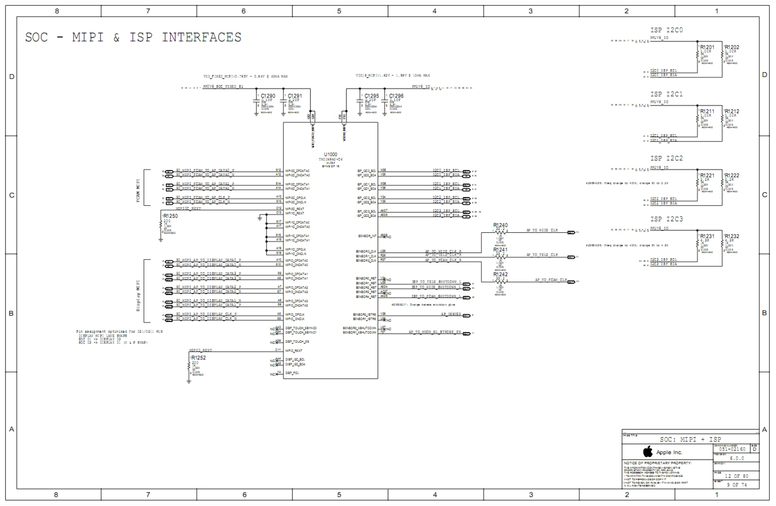
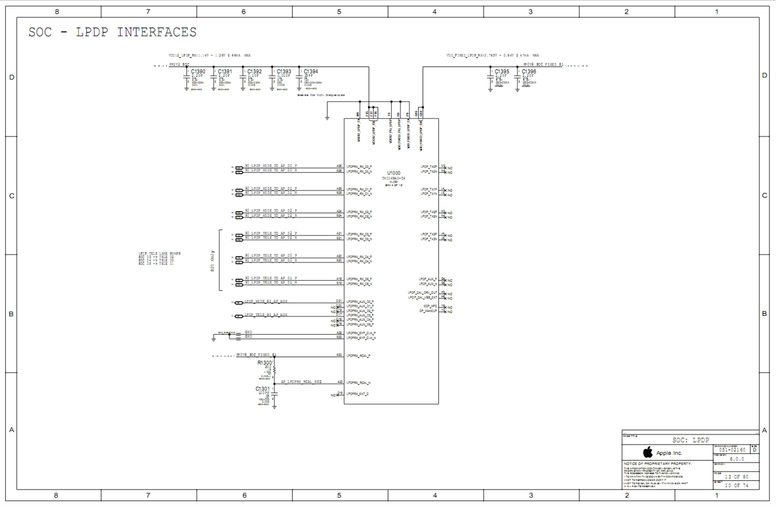
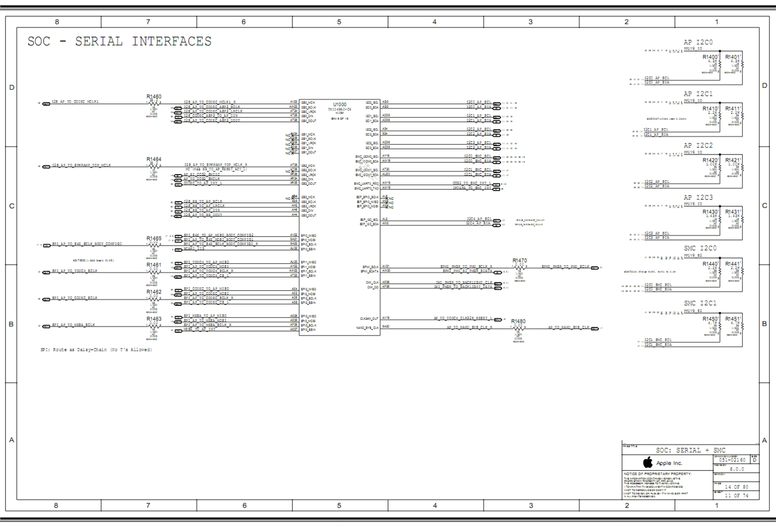
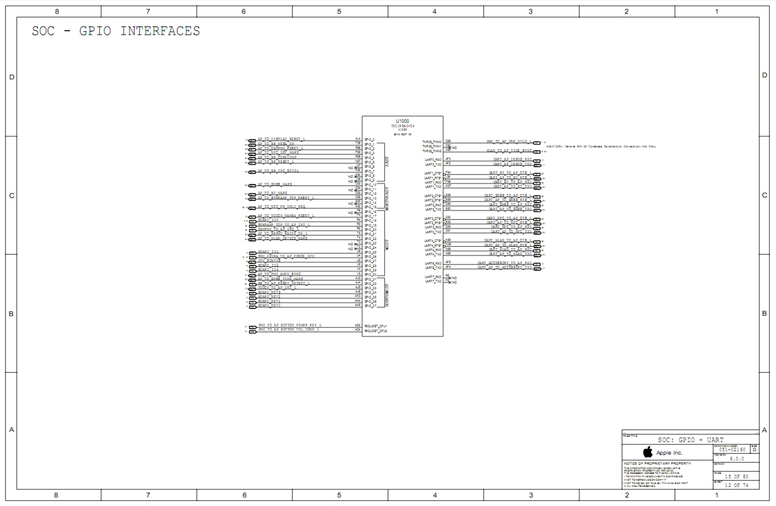


VIETMOBILE.VN



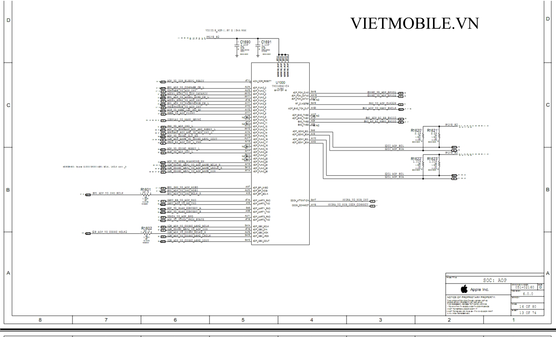




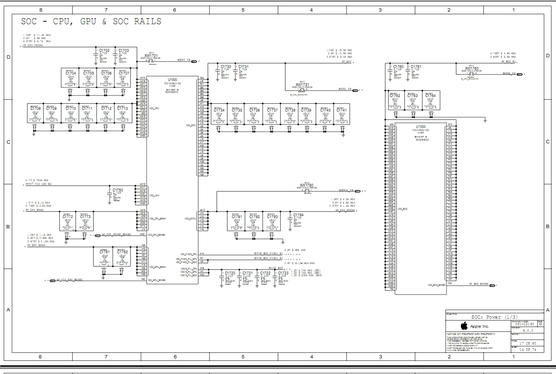


SOC - AOP

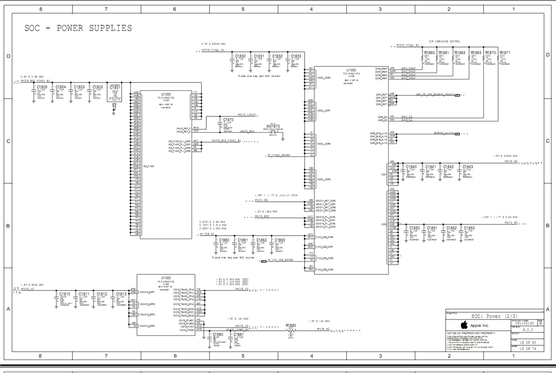
VIETMOBILE.VN



SOC: ACE



SOC: Power (2/3)



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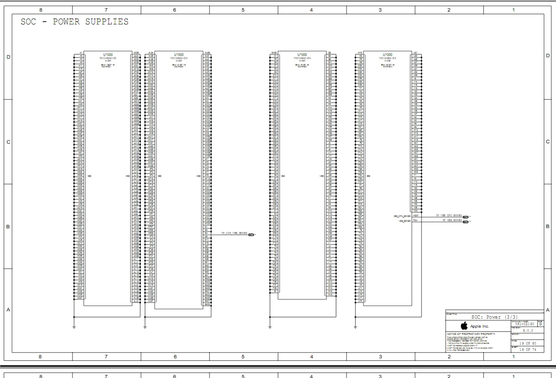

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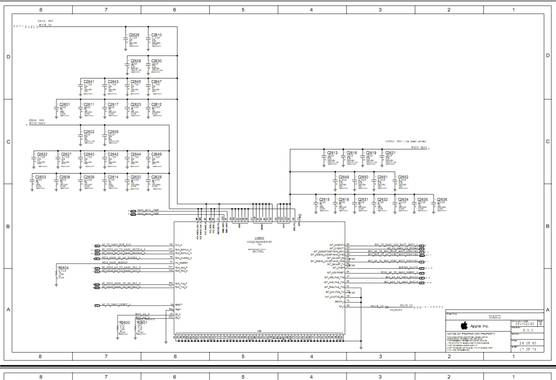

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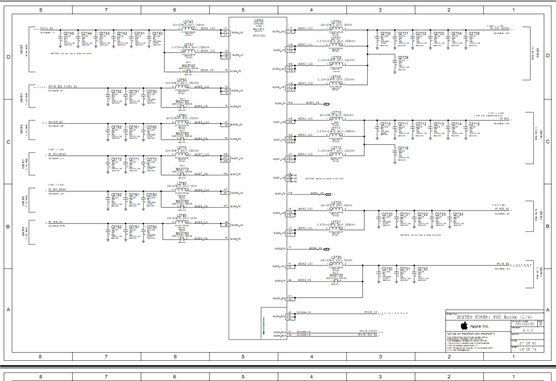

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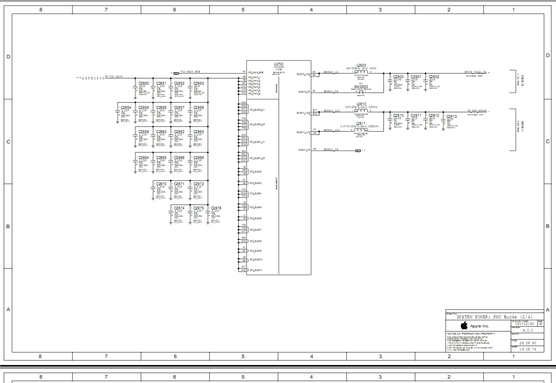

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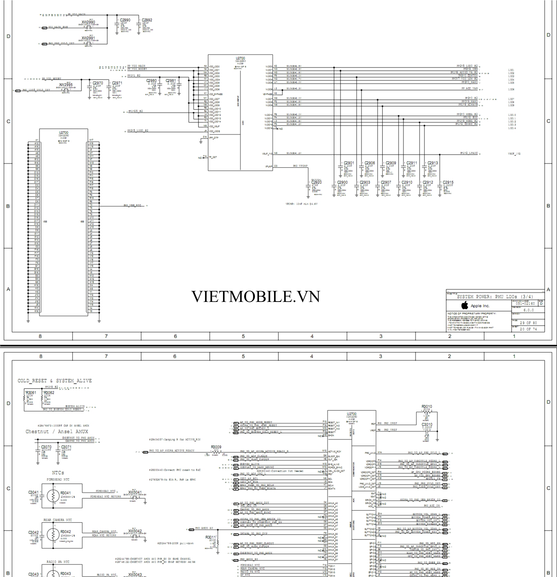

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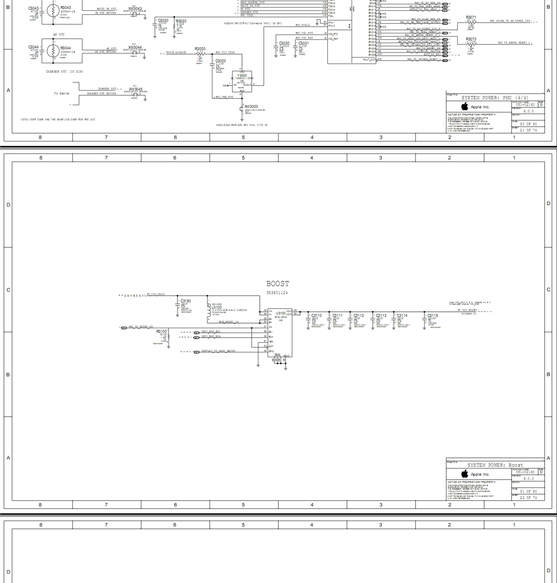
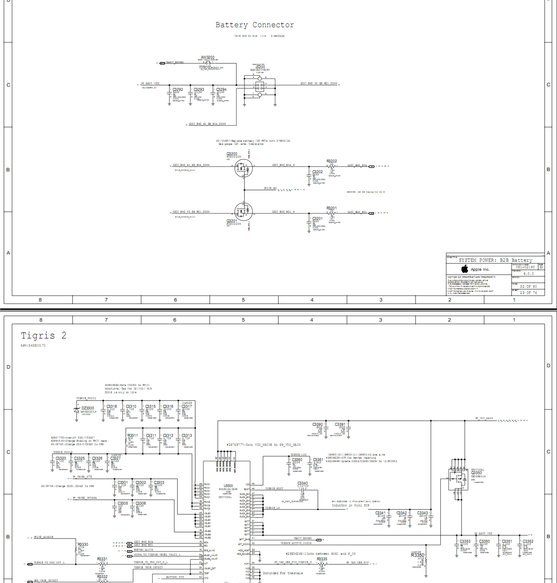
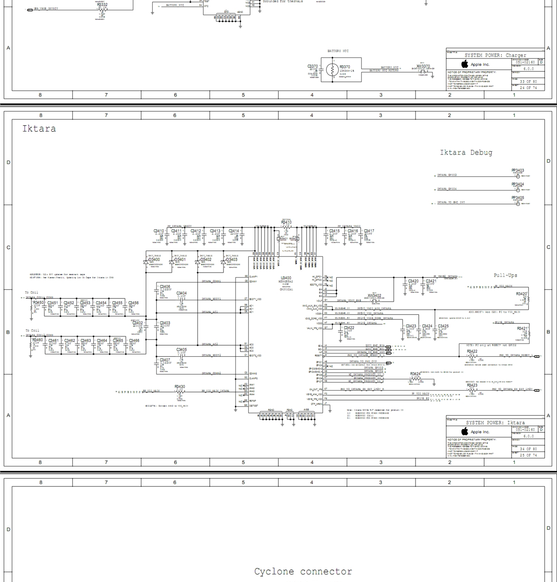
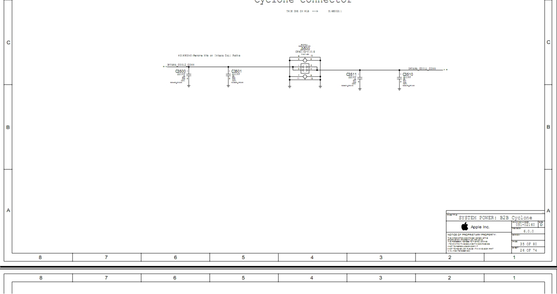
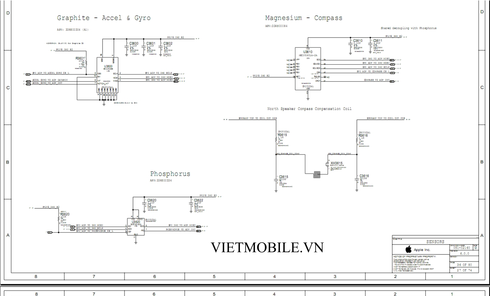


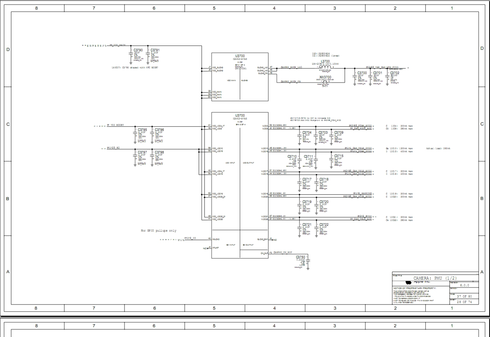


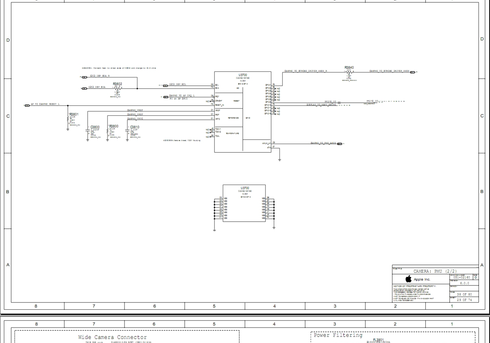


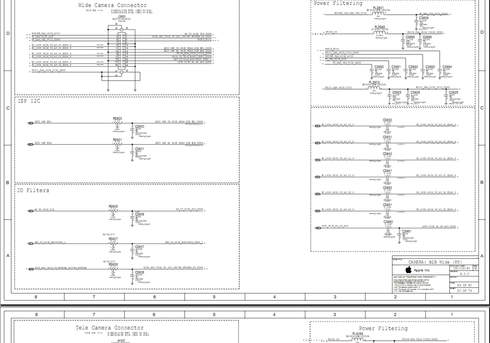


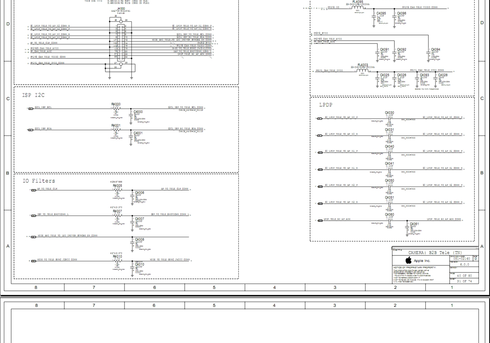


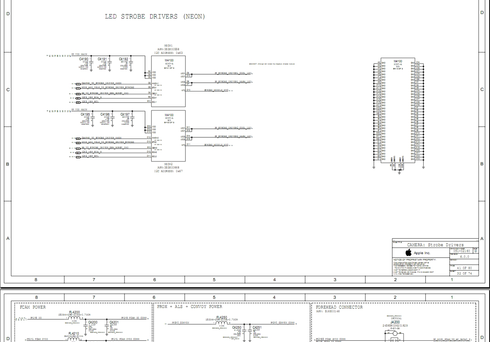
VIETMOBILE.VN

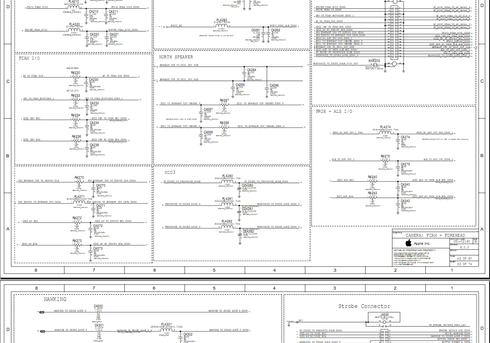


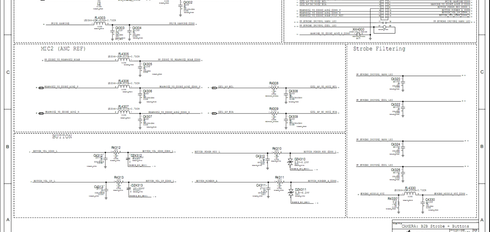




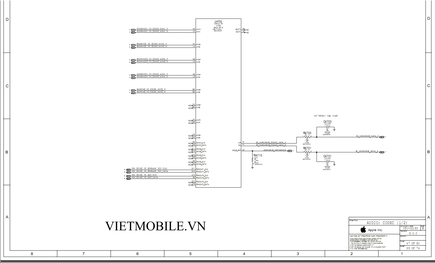








CALLAN AUDIO CODEC (ANALOG INPUTS & OUTPUTS)



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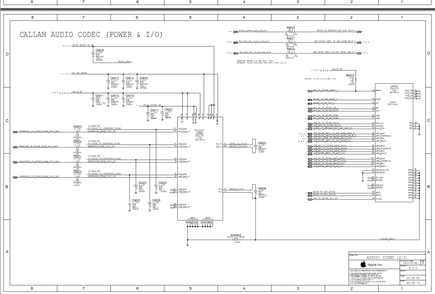
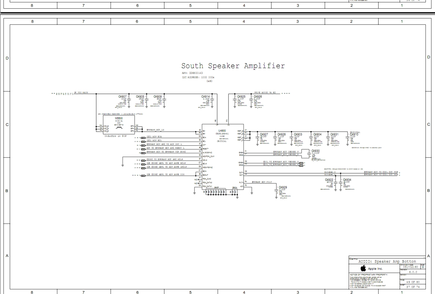
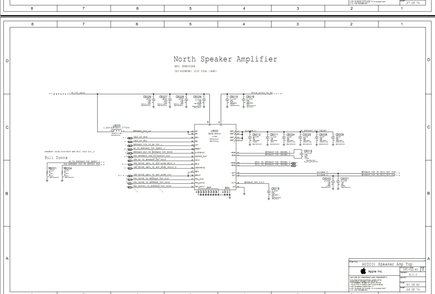
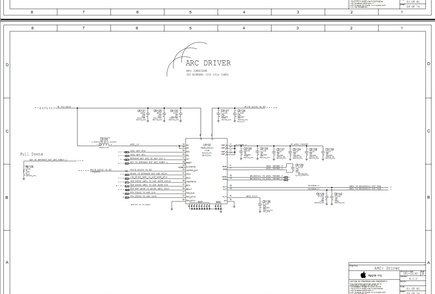
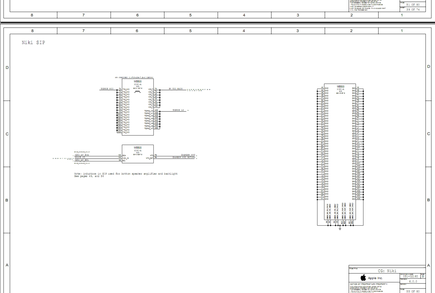
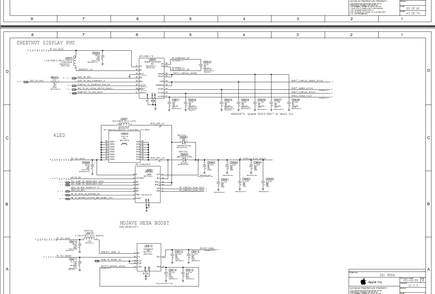


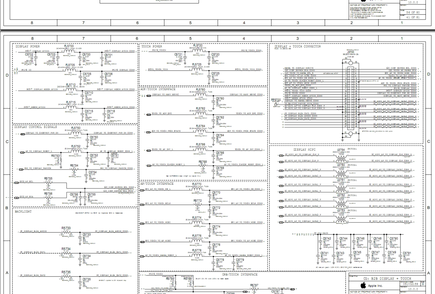




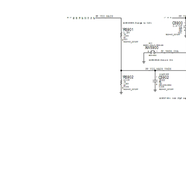






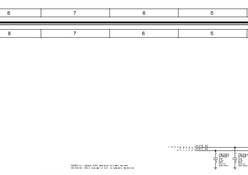


VDD_MAIN OV CUT-OFF CIRCUIT

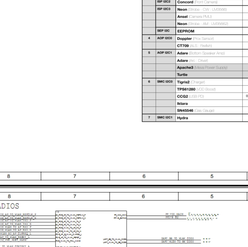


VIETMOBILE.VN

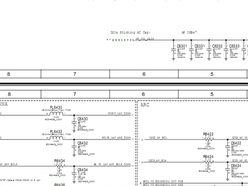
ACCESSORY BUCK



HYDRA



I2C1 SUB PC



I2C1 HYDRA

I2C1 B2B DOCK

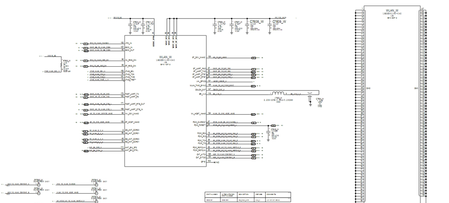
I2C MAP

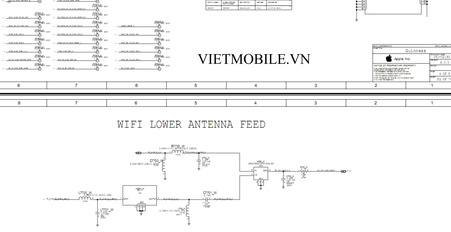
(see 820577J3 update)

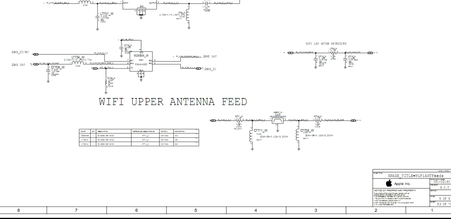
Page #	Bus	Device	7-Bit Address	8-Bit Address	Device Max Speed	Reporting Speed	Net Name
6	AP SDIO	Agnes (Tristan PA1)	0x70	0xE0	400 Kbps	400 Kbps	SDIO_AP
		Chestnut (Tristan PA1)	0x27	0x4E	400 Kbps		
		Accessory/Buck	0x52	0xA4	400 Kbps		
		Maxim (Tristan PA1)	0x62	0xC4	1 Mbps		
5	AP I2C1	MIC1 Temp Sensor (Tristan PA1)	0x34	0x68	1 Mbps	100 Kbps	I2C1_AP
		MIC2 Temp Sensor (Tristan PA1)	0x35	0x6C	1 Mbps		
4	AP I2C2	Adore (Tristan PA1)	0x55	0xB0	1 Mbps	1 Mbps	I2C2_AP
		Conroy (Tristan PA1)	0x21	0x42	1 Mbps		
3	AP I2C3	EEPROM (Tristan PA1)	0x52	0xA4	400 Kbps	400 Kbps	I2C3_AP
		Muon (Tristan PA1)	0x62	0xC4	400 Kbps		
		Salomon (Tristan PA1)	0x08	0x10	1 Mbps		
		EEPROM (Tristan PA1)	0x50	0xA0	400 Kbps		
	AP I2C4	Cooper (Tristan PA1)	0x70	0xE0	1 Mbps	1 Mbps	I2C4_AP
		Grumbarg (Tristan PA1)	0x32	0x78	1 Mbps		
	AP I2C5	Bishop (Tristan PA1)	0x20	0x40	1 Mbps	1 Mbps	I2C5_AP
		Edwin (Tristan PA1)	0x60	0xC0	1 Mbps		
	AP I2C6	Diamond (Tristan PA1)	0x10	0x20	1 Mbps	400 Kbps	I2C6_AP
	AP I2C7	Nevan (Tristan PA1)	0x61	0xC2	1 Mbps	400 Kbps	I2C7_AP
		Arvel (Tristan PA1)	0x40	0x80	1 Mbps		
		Neven (Tristan PA1)	0x67	0xCE	1 Mbps		
	AP I2C8	EEPROM (Tristan PA1)	0x51	0xA2	400 Kbps	400 Kbps	I2C8_AP
4	AUP SPI1	Chapter (Tristan PA1)	0x08	0x80	15 Mbps	400 Kbps	SPI1_AUP
		CT150 (Tristan PA1)	0x28	0x50	400 Kbps		
5	AUP I2C1	Adore (Tristan PA1)	0x55	0xB0	1 Mbps	1 Mbps	I2C1_AUP
		Adore (Tristan PA1)	0x41	0x82	1 Mbps		I2C1_AUP_RD
		Aptotrack (Tristan PA1)	0x61	0xC2	1 Mbps		
		Turbo (Tristan PA1)	0x07	0x08	1 Mbps		
6	SMC I2C0	Tigrisd (Tristan PA1)	0x71	0xE2	400 Kbps	400 Kbps	I2C0_SMC
		TPS61280 (Tristan PA1)	0x75	0xEA	400 Kbps		
		CCG2 (Tristan PA1)	0x10 (0x11)	0x20 (0x21)	1 Mbps		
		Adara (Tristan PA1)	0x39	0x72	400 Kbps		
		Electrode (Tristan PA1)	0x55	0xAA	400 Kbps		
5	SMC I2C1	Hydra (Tristan PA1)	0x1A	0x34	400 Kbps	400 Kbps	I2C1_SMC

RADIOS

WIFI/BT



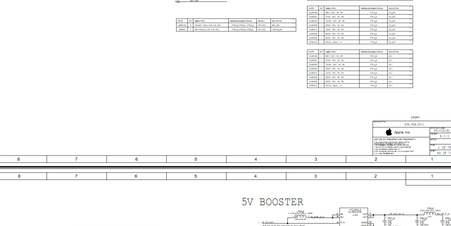




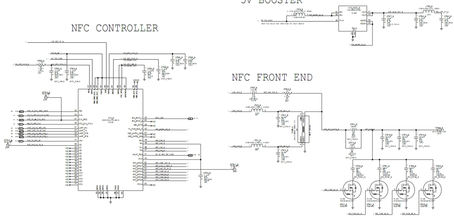
VIETMOBILE.VN

WIFI LOWER ANTENNA FEED

WIFI UPPER ANTENNA FEED

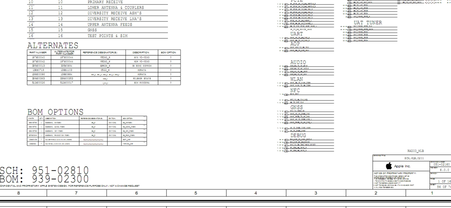


NFC MLB D20/D21
ARPIL 25, 2017



NFC CONTROLLER

5V BOOSTER



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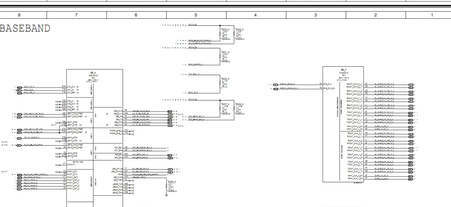
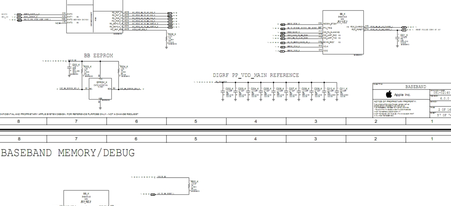
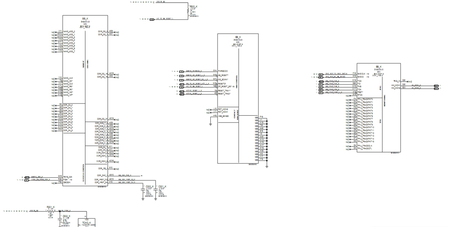


ICE17 RADIO_MLB
Thu Apr 27 16:59:24 2017

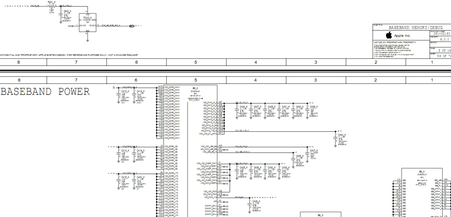


SCH: 951-02810
BOM: 939-02300

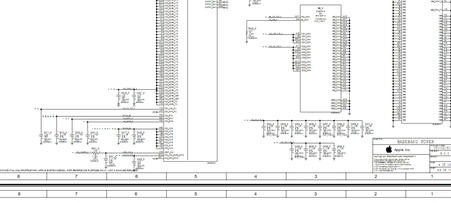
BASEBAND



BASEBAND MEMORY/DEBUG

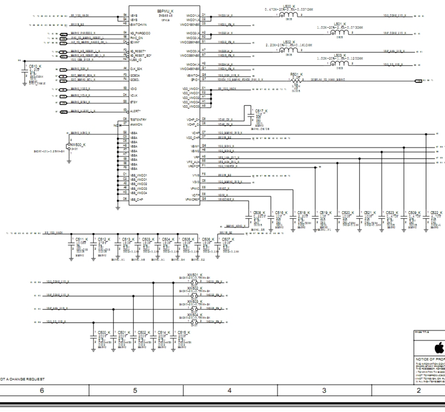


BASEBAND POWER



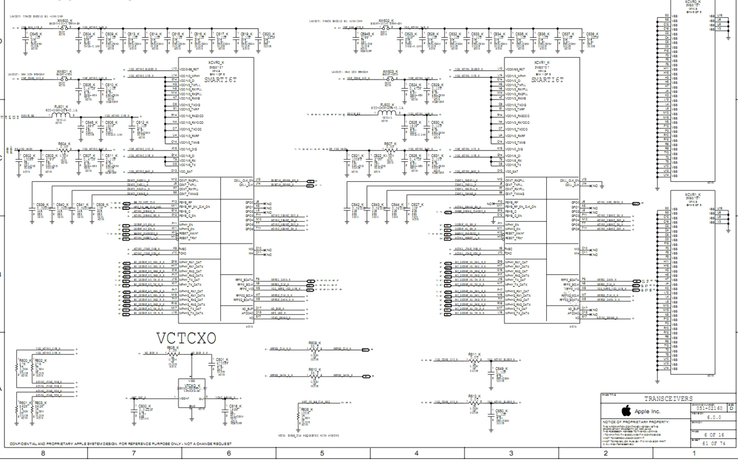
VIETMOBILE.VN

BASEBAND PMIC



CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSE ONLY - NOT A CHANGE REQUEST

TRANSCEIVERS

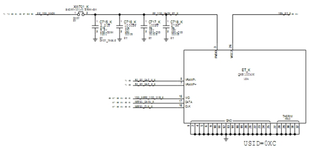


VCTCXO

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSE ONLY - NOT A CHANGE REQUEST

ET MODULATOR

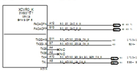
ALPES II ES2 MODULE



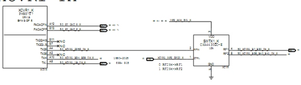
CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSE ONLY - NOT A CHANGE REQUEST

TDD TRANSMIT

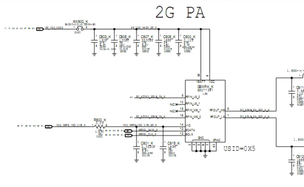
XCVR0 TX



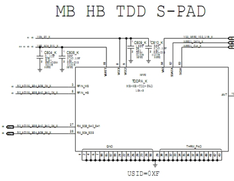
XCVR1 TX



2G PA



MB HB TDD S-PAD



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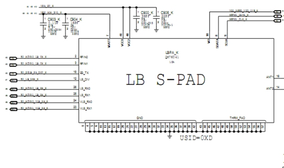
FDD TRANSMIT

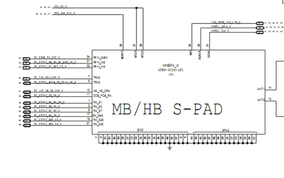
LB S-PAD



BOM OPTIONS

DATE	QTY	CAPACITOR	RESISTOR/INDUCTOR	MISC/OPTION
1234567	1	1n, 1.0%, 50V, X7R	1KΩ, 1%	
1234568	1	1n, 1.0%, 50V, X7R	10KΩ, 1%	
1234569	1	1n, 1.0%, 50V, X7R	100KΩ, 1%	
1234570	1	1n, 1.0%, 50V, X7R	1MΩ, 1%	
1234571	1	1n, 1.0%, 50V, X7R	10MΩ, 1%	
1234572	1	1n, 1.0%, 50V, X7R	100MΩ, 1%	
1234573	1	1n, 1.0%, 50V, X7R	1GΩ, 1%	
1234574	1	1n, 1.0%, 50V, X7R	10GΩ, 1%	

MB/HB S-PAD



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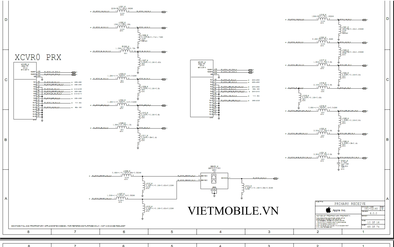
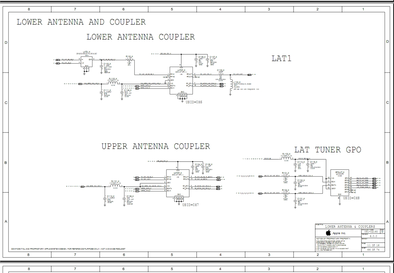
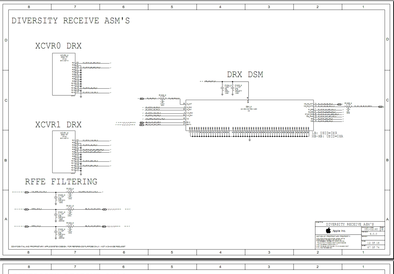
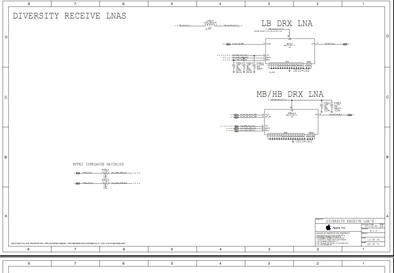
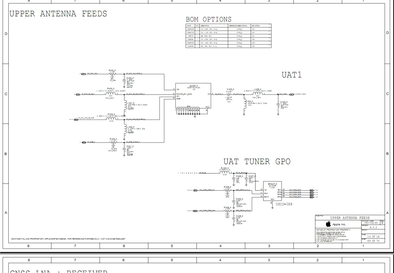
PRIMARY RECEIVE

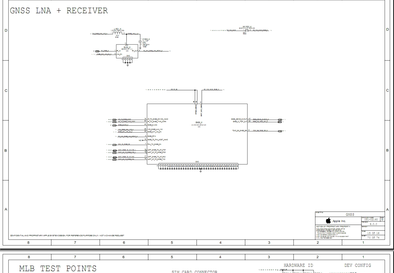

XCVR0 PRX
VIETMOBILE.VN

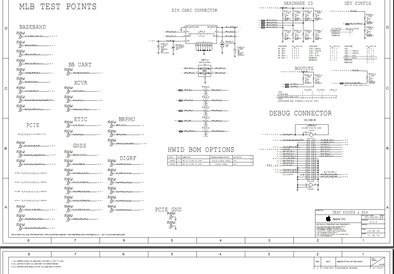

LOWER ANTENNA AND COUPLER
LOWER ANTENNA COUPLER
LAT1
UPPER ANTENNA COUPLER
LAT TUNER GPO

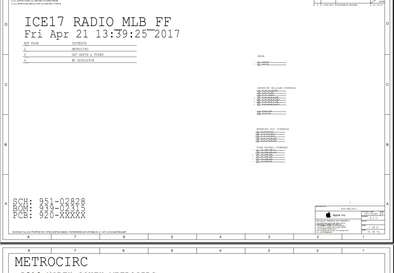

DIVERSITY RECEIVE ASM'S
XCVR0 DRX
DRX DSM
XCVR1 DRX
RFFE FILTERING

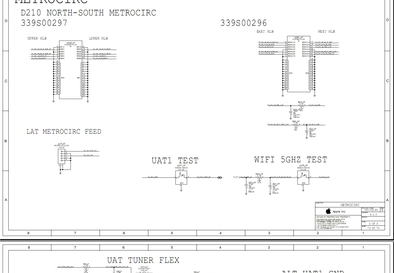

DIVERSITY RECEIVE LNAS
LB DRX LNA
MB/HB DRX LNA

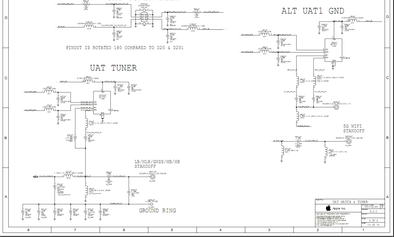

UPPER ANTENNA FEEDS
BOM OPTIONS
UAT1
UAT TUNER GPO


GNSS LNA + RECEIVER


MLB TEST POINTS
BASEBAND
SIM CARD CONNECTOR
HARDWARE ID
DEBUG CONNECTOR
BOOTCFG
SWD1 UART
XCVR
PCIE
RFFC
BB/PMU
GNSS
DIGRF
SWD1 BOM OPTIONS
PCIE_GND


ICE17 RADIO MLB FF
Fri Apr 21 13:39:25 2017
SCH: 951-02828
BOM: 820-06315
PCB: 820-XXXXX


METROCIRC
D210 NORTH-SOUTH METROCIRC
339S00297
339S00296
LAT METROCIRC FEED
UAT1 TEST
WIFI 5GHZ TEST


UAT TUNER FLEX
ALT UAT1 GND
PINOUT IS ROTATED 180 COMPARED TO D20 & D21
UAT TUNER
GROUND RING