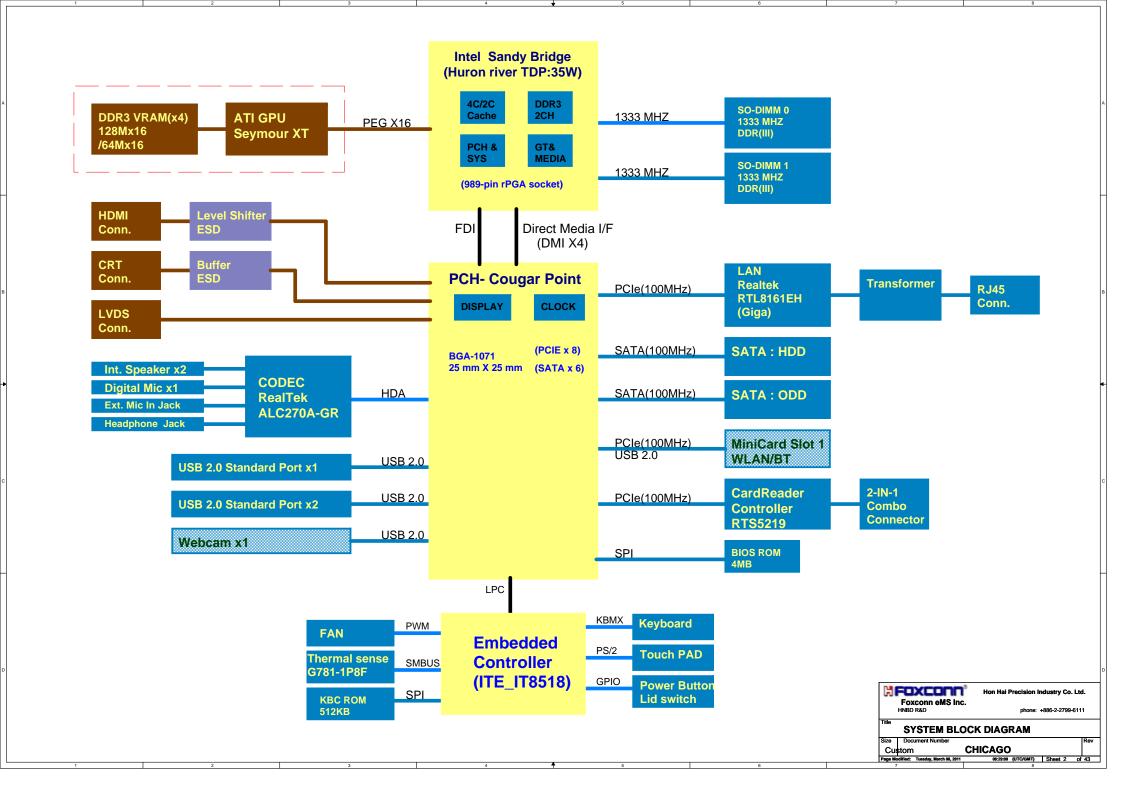
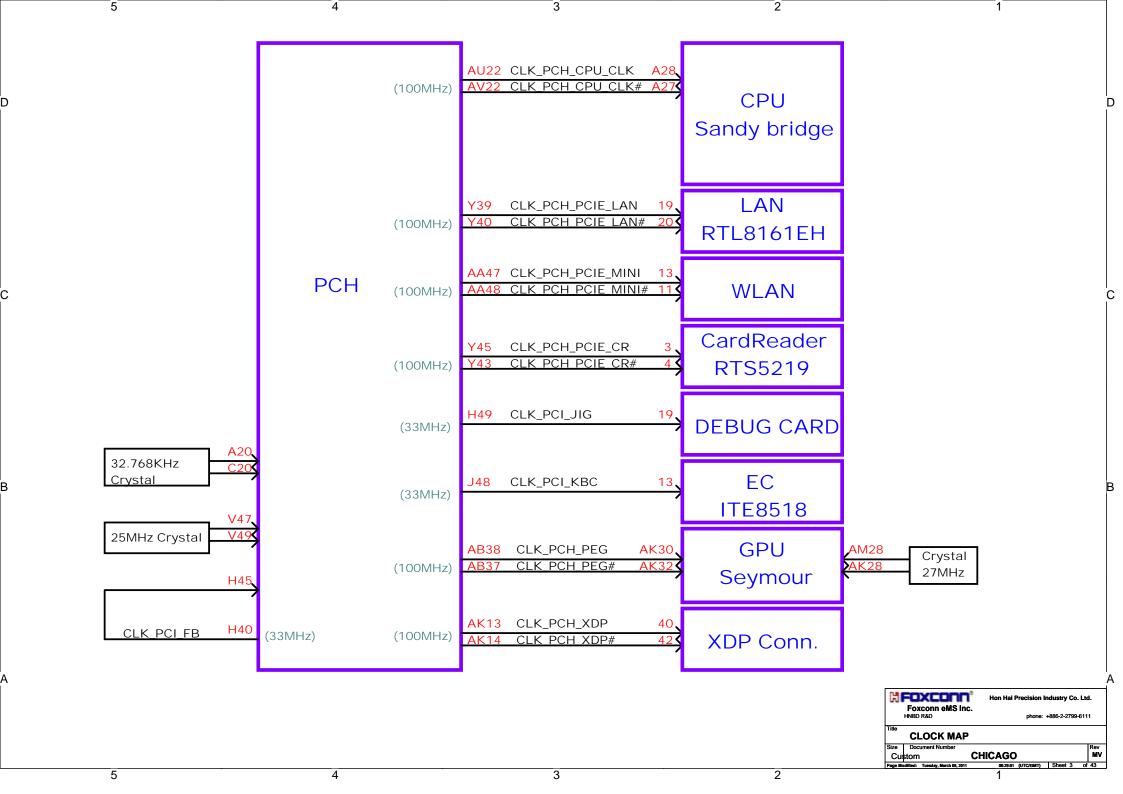
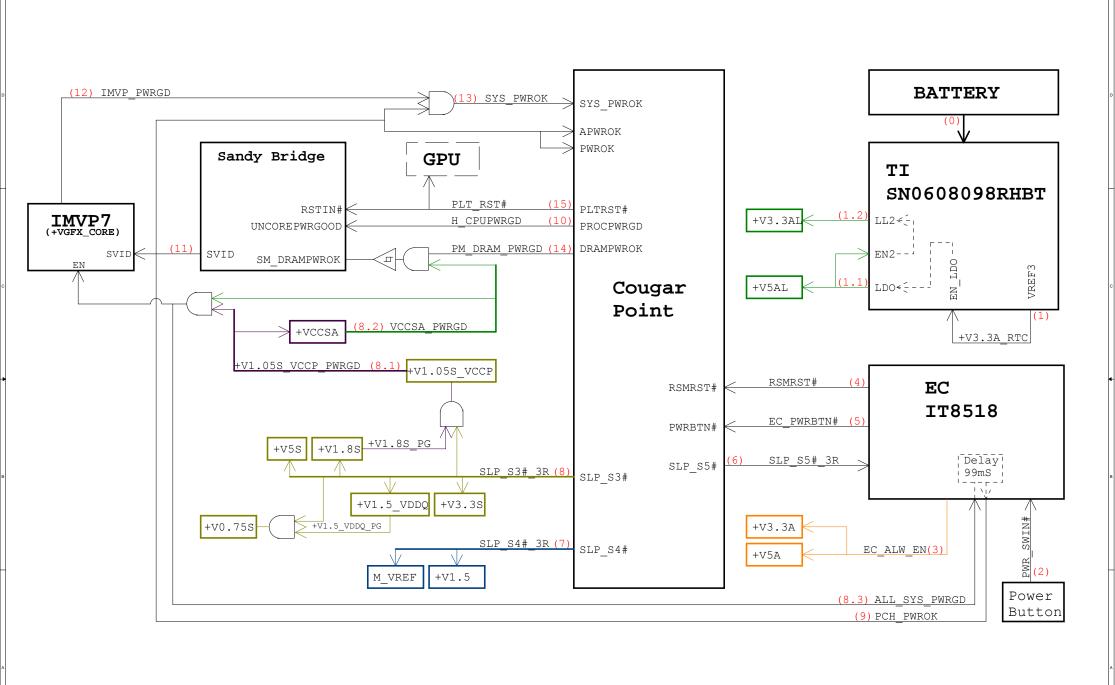
PROJECT: CHICAGO (For Intel Huron River Platform)

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01 -- COVER SHEET
                                    23 -- CougarPoint (HDA, SATA..)
02 -- SYSTEM BLOCK DIAGRAM
                                    24 -- CougarPoint (PCI-E, CLK..)
03 -- CLOCK MAP
                                    25 -- CougarPoint (DMI, FDI..)
04 -- POWER SEQUENCY DIAGRAM
                                    26 -- CougarPoint (USB, GPIO..)
05 -- POWER MAP
                                    27 -- CougarPoint(PWR/GND)
06 -- SMBUS MAP
                                    28 -- CougarPoint (PWR, GND)
07 -- Blank
                                    29 -- DDR3(SO-DIMM 0&1)
                                    30 -- VGA (PCI-E/STRAP) 1/3
08 -- DCIN/BATT
09 -- PWR CHARGE
                                   31 -- VGA S3 (IO) 2/3
10 -- PWR 5V/3.3V
                                   32 -- VGA S3 (DDR3) 3/3
11 -- PWR VCCP
                                   33 -- VRAM (DDR3)
12 -- PWR 1.5V/0.75S
                                    34 -- EC+KBC (IT8518) & ROM
13 -- PWR VCORE
                                    35 -- Audio (CODEC ALC270A)
14 -- PWR OTHER
                                    36 -- Audio (JACK+AMP+SPK+Mute)
15 -- PWR ATVDD
                                    37 -- LAN (RTL8161EH)
16 -- PWR 1.8VS
                                    38 -- Mini PCIe & FAN
17 -- PWR VCCSA
                                    39 -- USBx2/USB DB/SATA CONN.
18 -- Sandy Bridge (DMI, PEG, FDI)
                                    40 -- Card Reader (RTL5219-GR)
19 -- Sandy Bridge (CLK, JTAG..) 41 -- HDMI & CRT
20 -- Sandy Bridge (DDR3)
                                 42 -- LVDS & Webcam
21 -- Sandy Bridge (PWR/GND)
                                 43 -- Sequence circuit
22 -- Sandy Bridge (GRAPHIC PWR)
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| Foxconn eMS Inc. HNBD R&D Hon Hai Precision Industry Co. Ltd. phone: +886-2-2799-6111 | | | |
| Index Page | | | |
| Size Document Number Custom | CHICAGO | | Rev MV |
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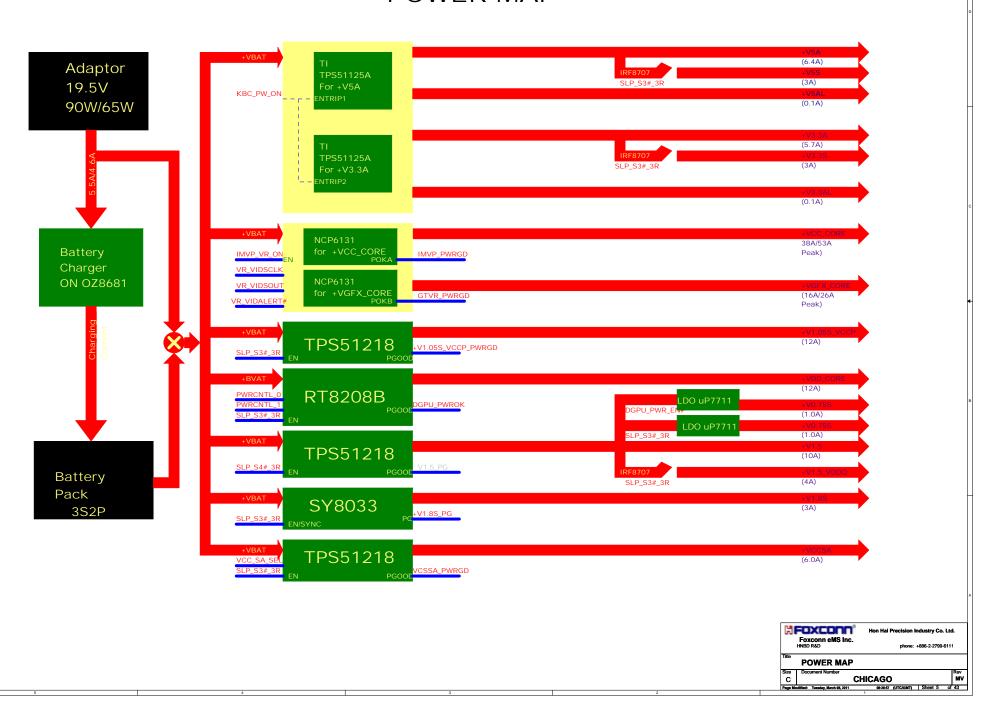


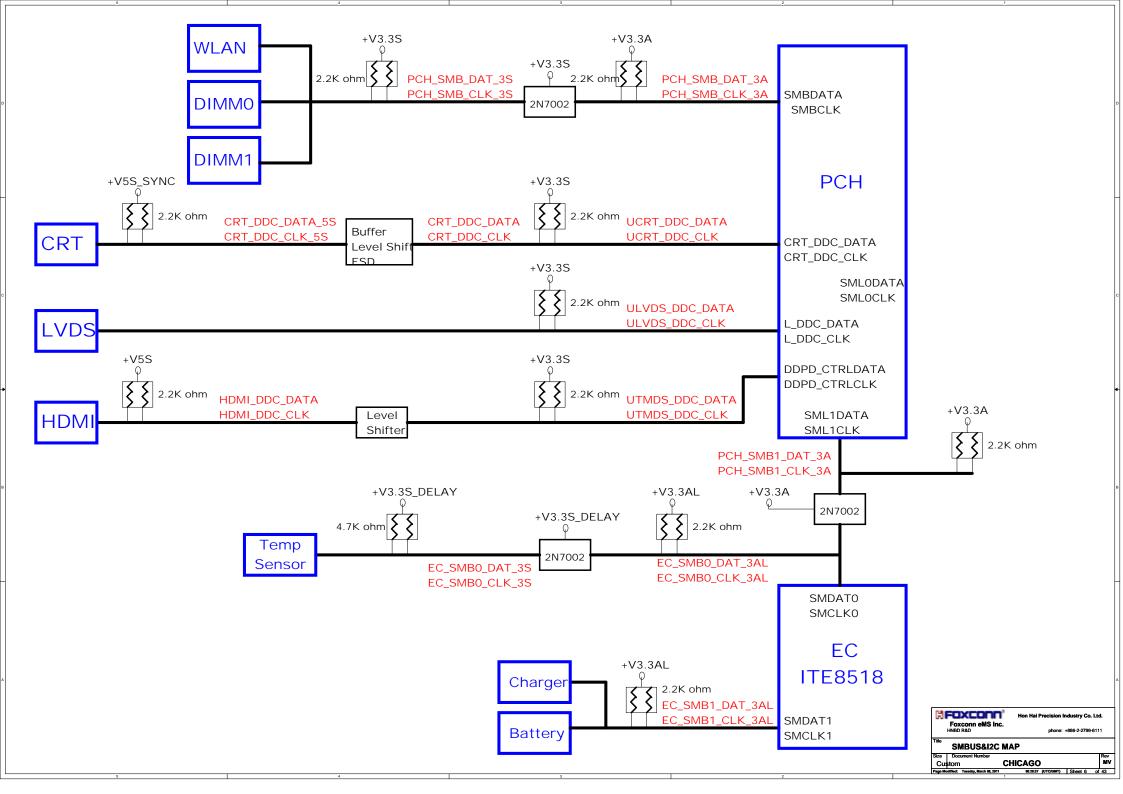


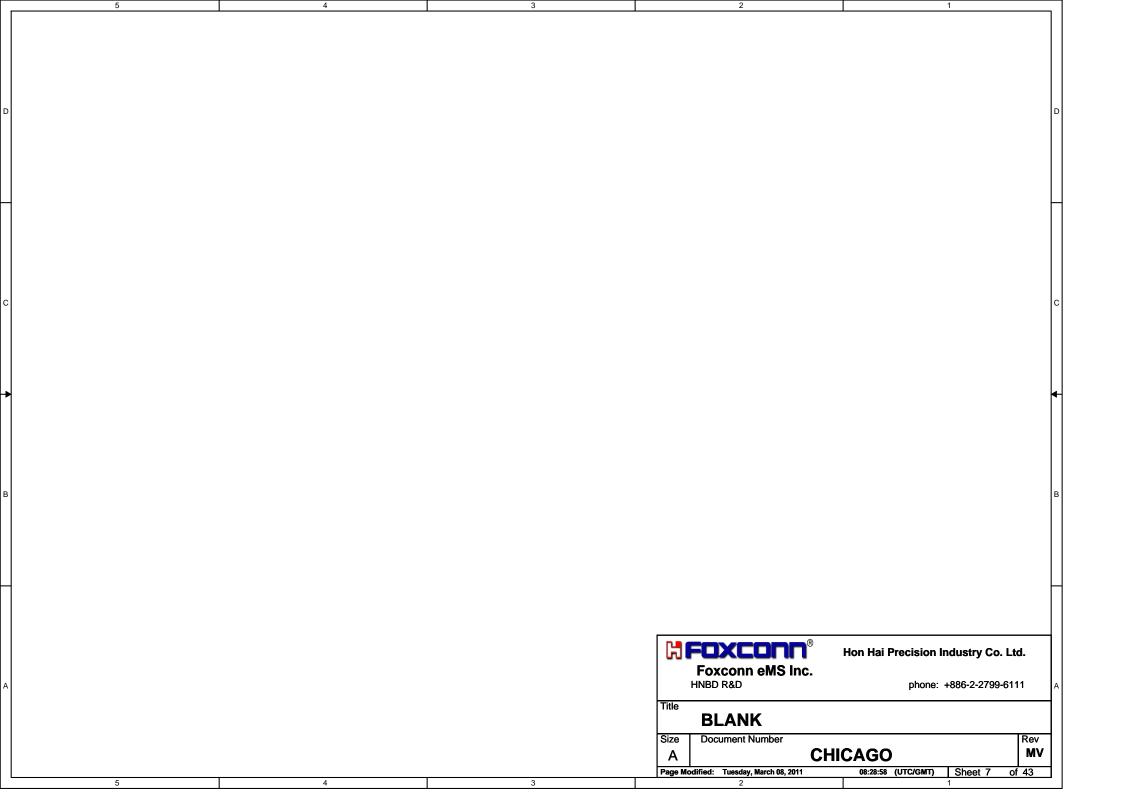




POWER MAP

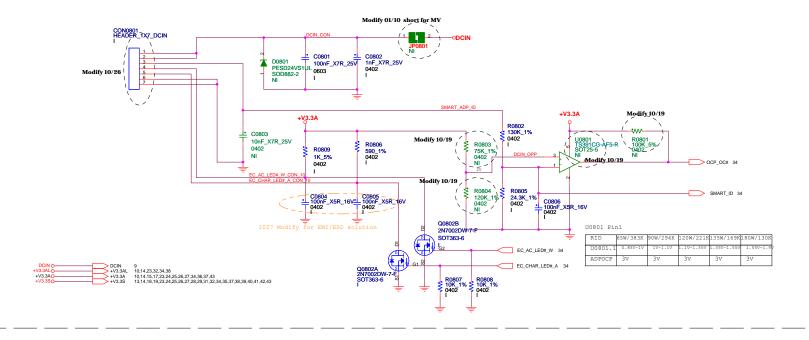






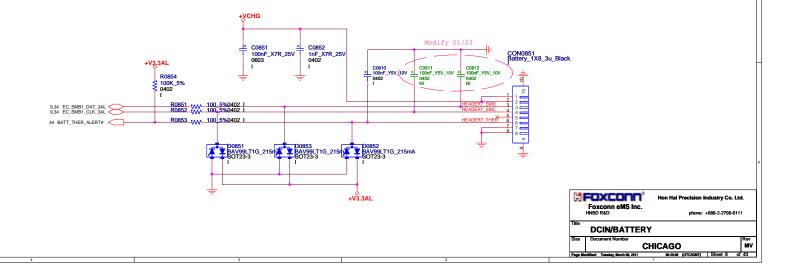
DC_JACK WIRE to BOARD CONNECTOR

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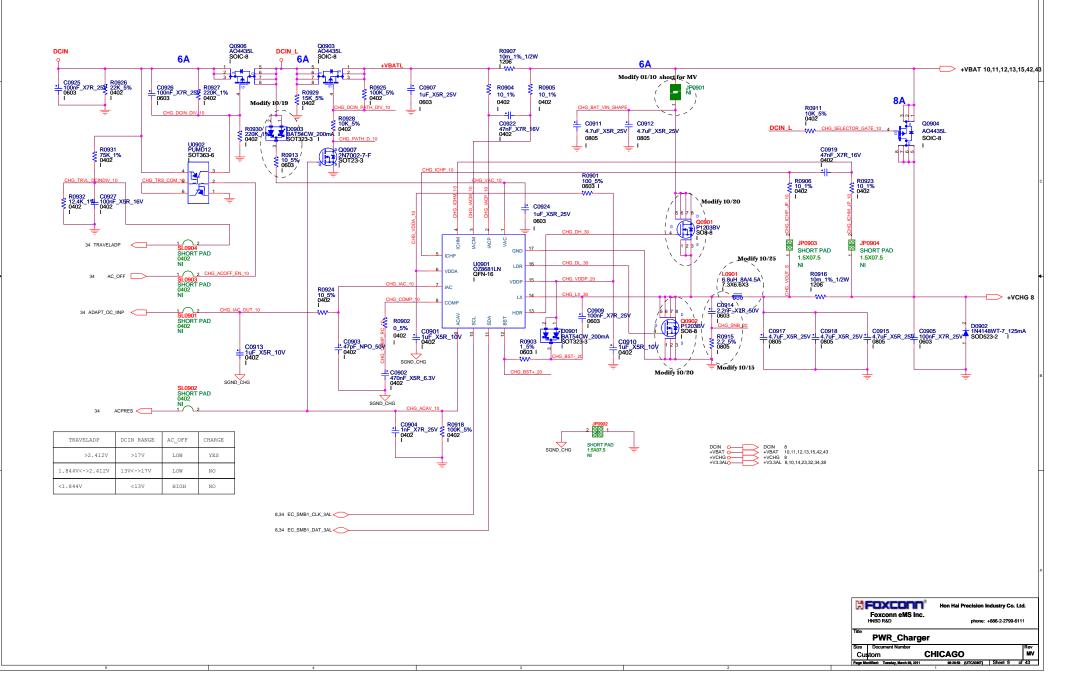


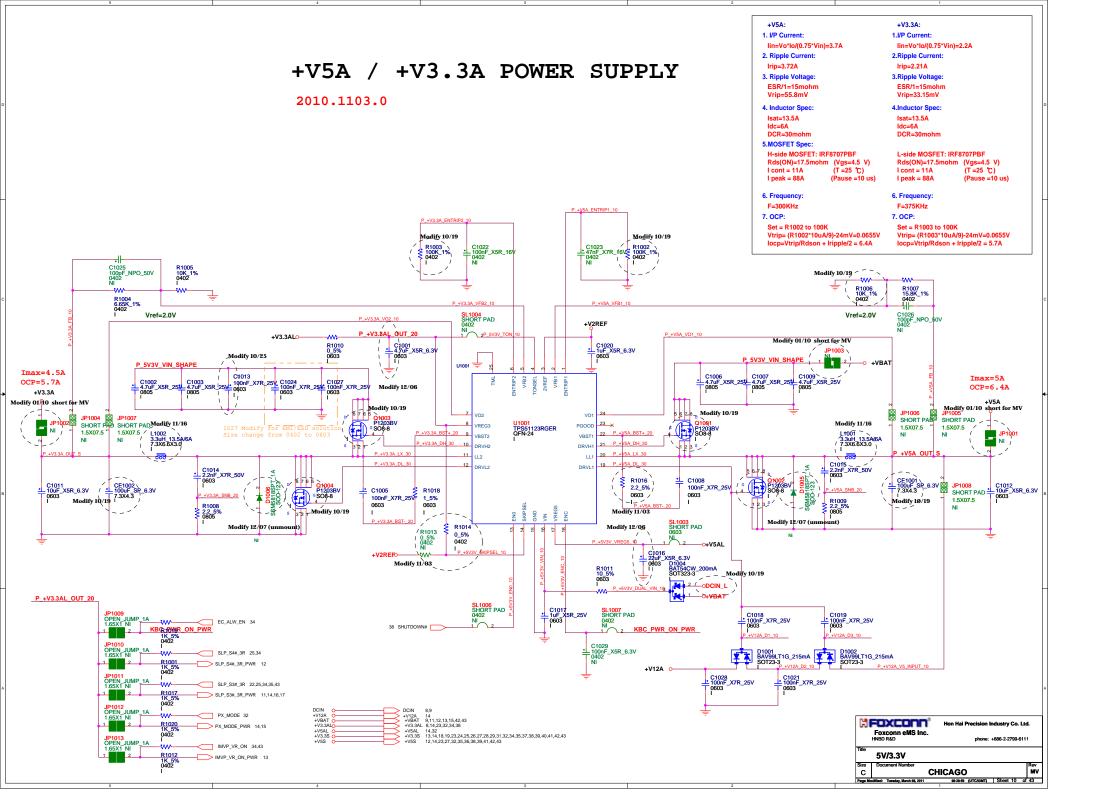
BATTERY CONNECTOR

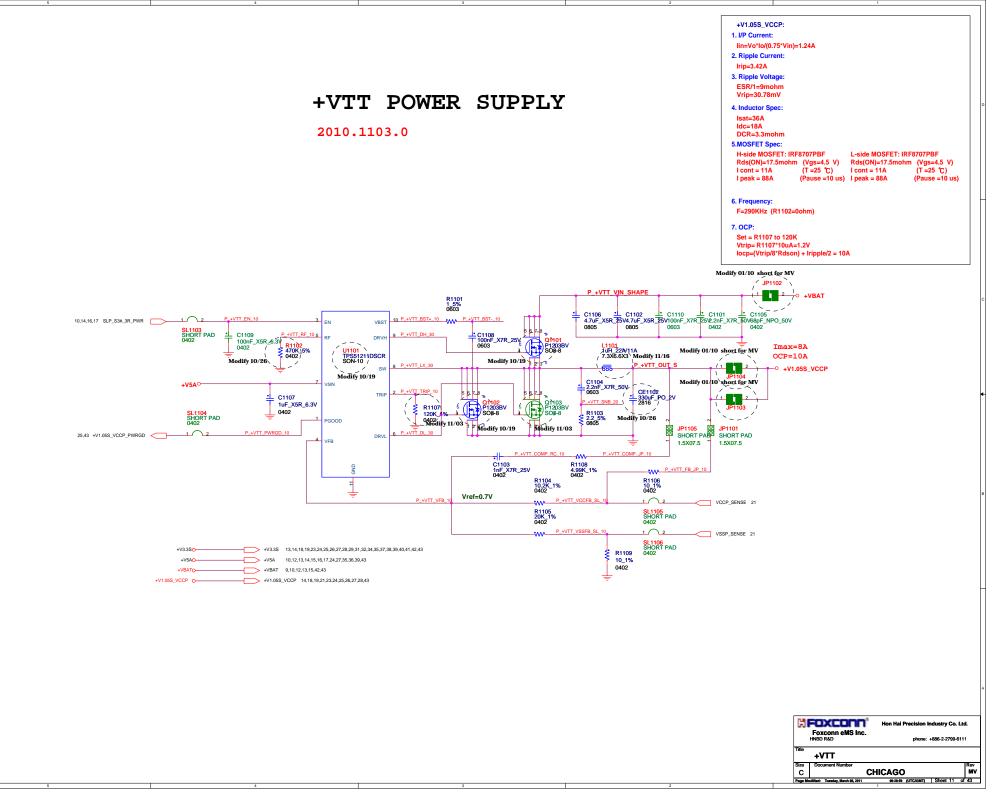
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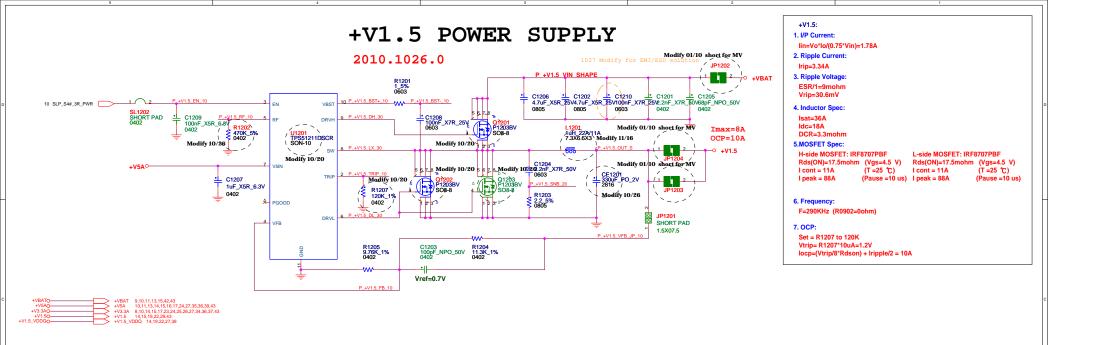


BATTERY CHARGER



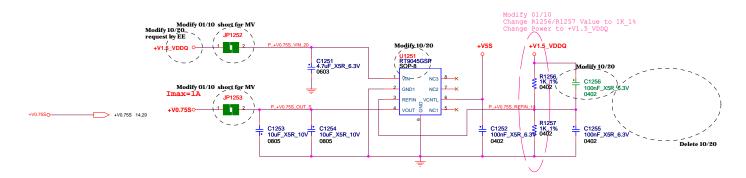




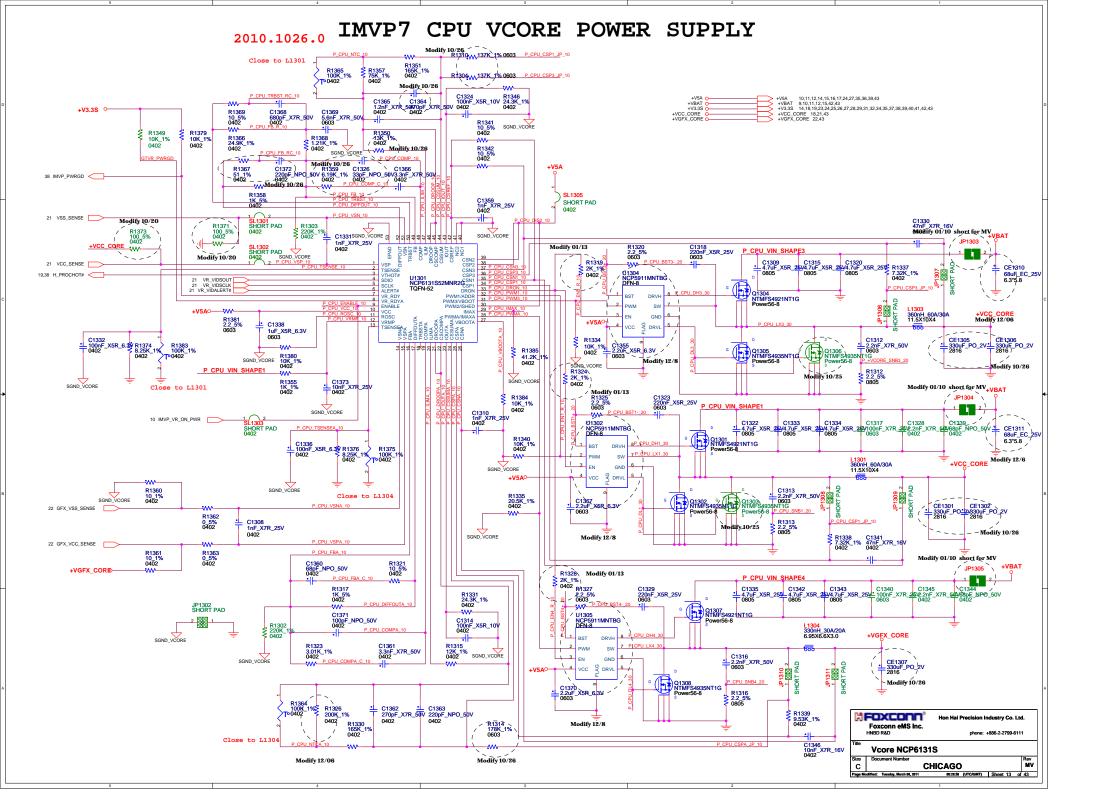


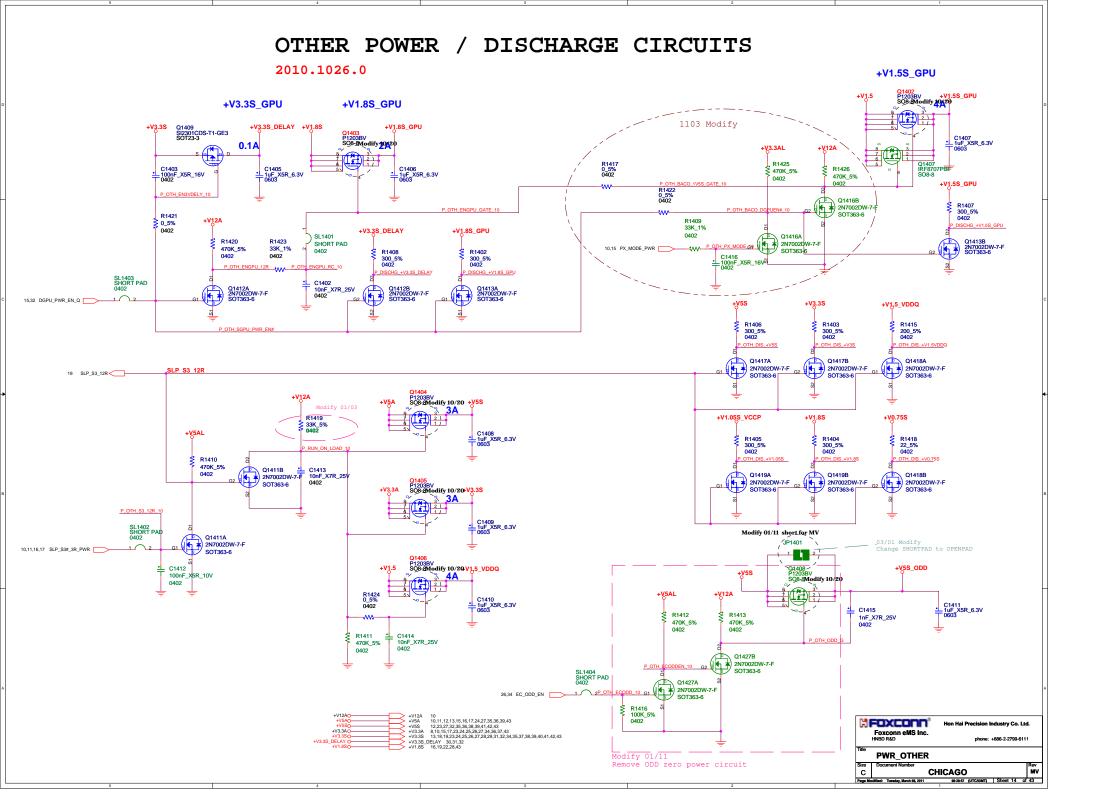
+V0.75S POWER SUPPLY

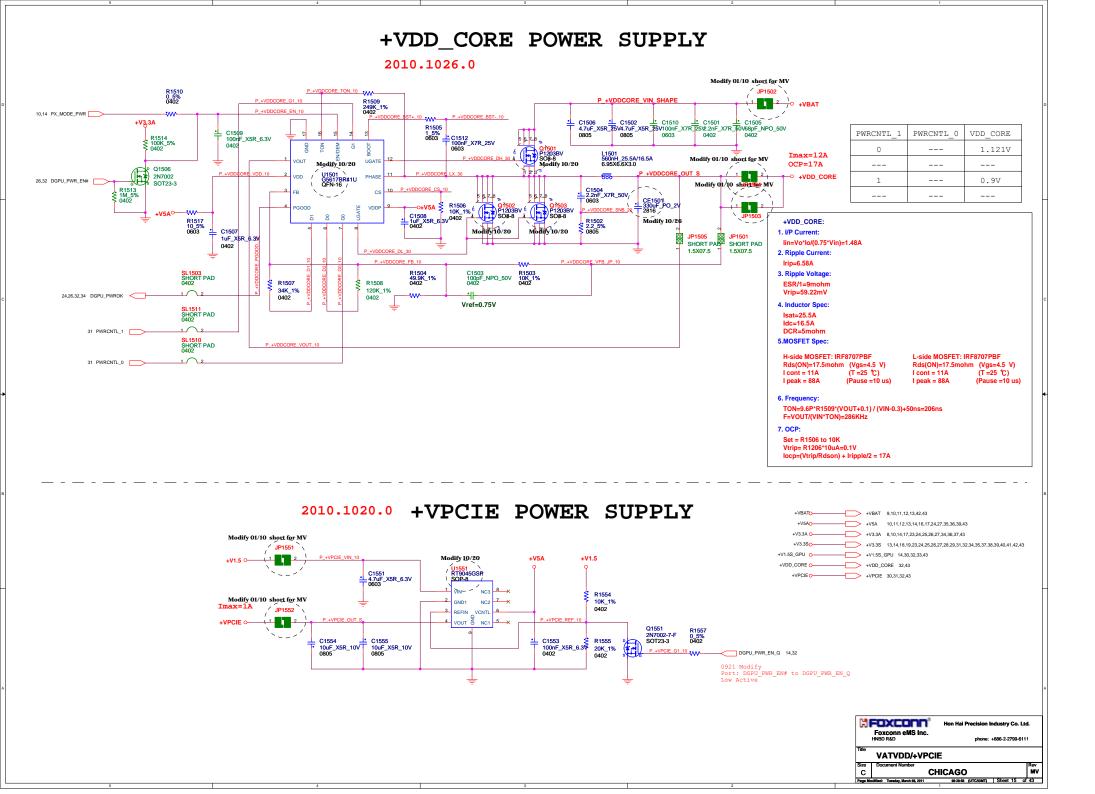
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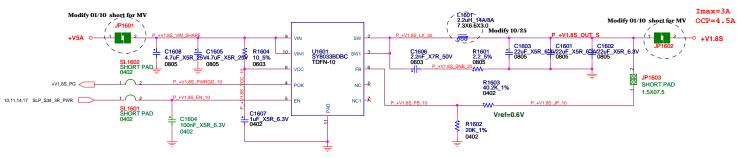




+V1.8S POWER SUPPLY

2010.1025.0

+V1.8S: 1. I/P Current: lin=Vo*lo/(0.75*Vin)=1.44A 2. Ripple Current: Irip=0.53A 3. Ripple Voltage: ESR/3=3.3mohm Vrip=1.75mV 4. Inductor Spec: Isat=14A Idc=8A DCR=20mohm 5.MOSFET Spec: H-side P-MOSFET: L-side N-MOSFET: Rds(ON)=110mohm (Vgs=4.5 V) Rds(ON)=75mohm (Vgs=4.5 V) F=1MHz (min=800KHz, max=1.2MHz) locp=4A(min)/4.5A(typ)/5A(max)



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+1.8VS

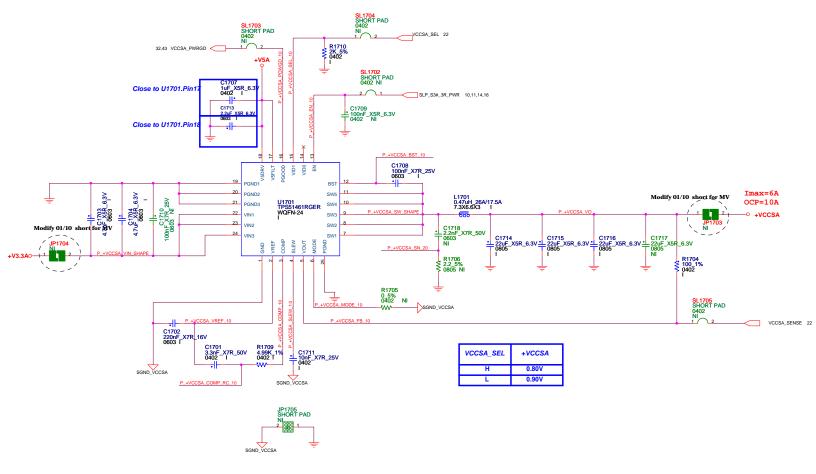
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C | CHICAGO | Rev MV

Rep Medithet: Tassing, March 48, 2711 | 62256 ((FTCOMT) | Sheet 16 of 43

+VCCSA POWER SUPPLY

2010.1026.0



+VCCSA: 1. I/P Current: lin=Vo*lo/(0.75*Vin)=2.18A 2. Ripple Current: Irip=1.39A 3. Ripple Voltage: ESR/4=1mohm Vrip=1.39mV 4. Inductor Spec: Isat=26A Idc=17.5A DCR=4.2mohm 5.MOSFET Spec: 6. Frequency: F=1MHz (R1705=Open) 7. OCP: Min: 6A / Typ: 7.5A

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HNBD R&D

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