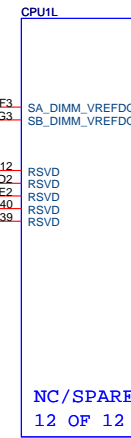
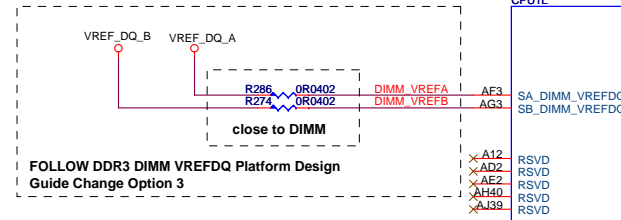
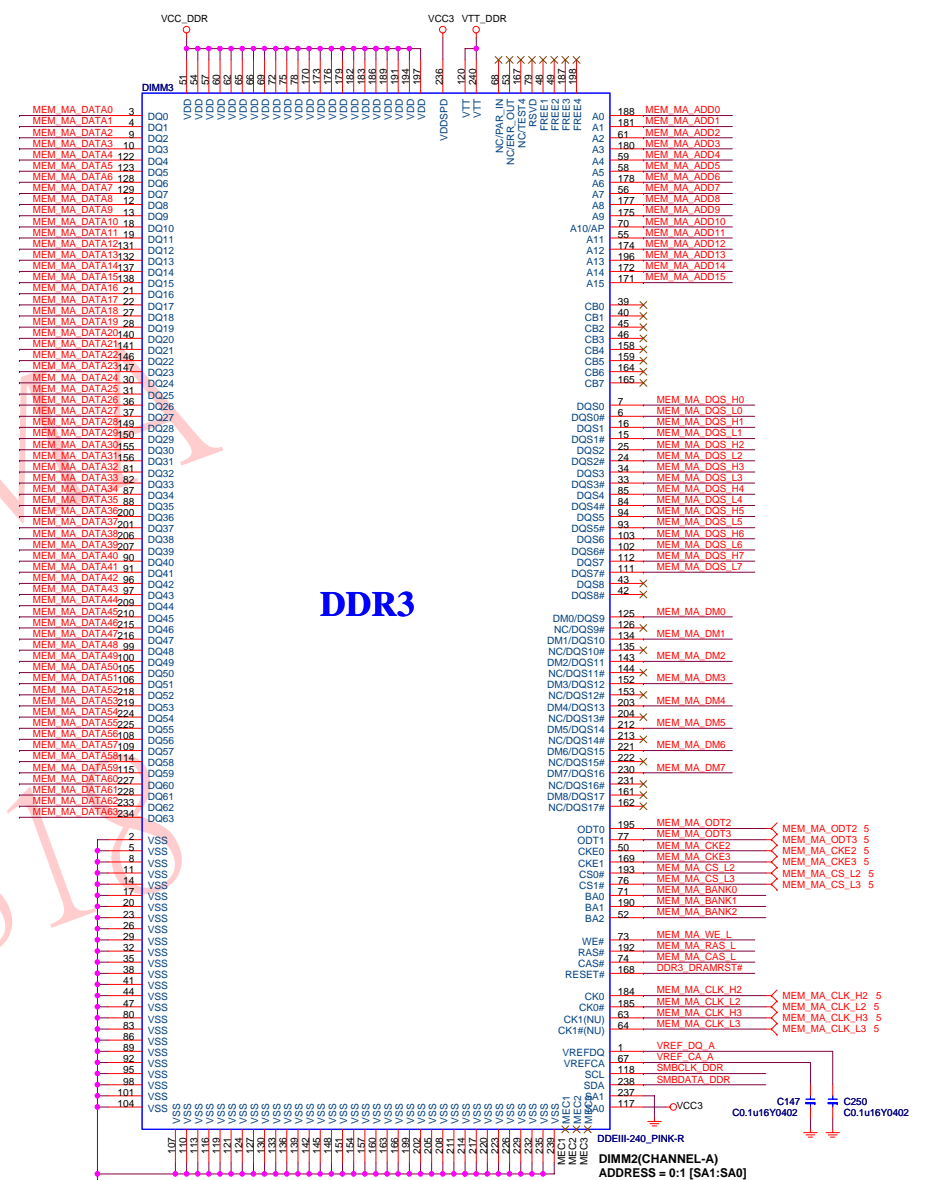
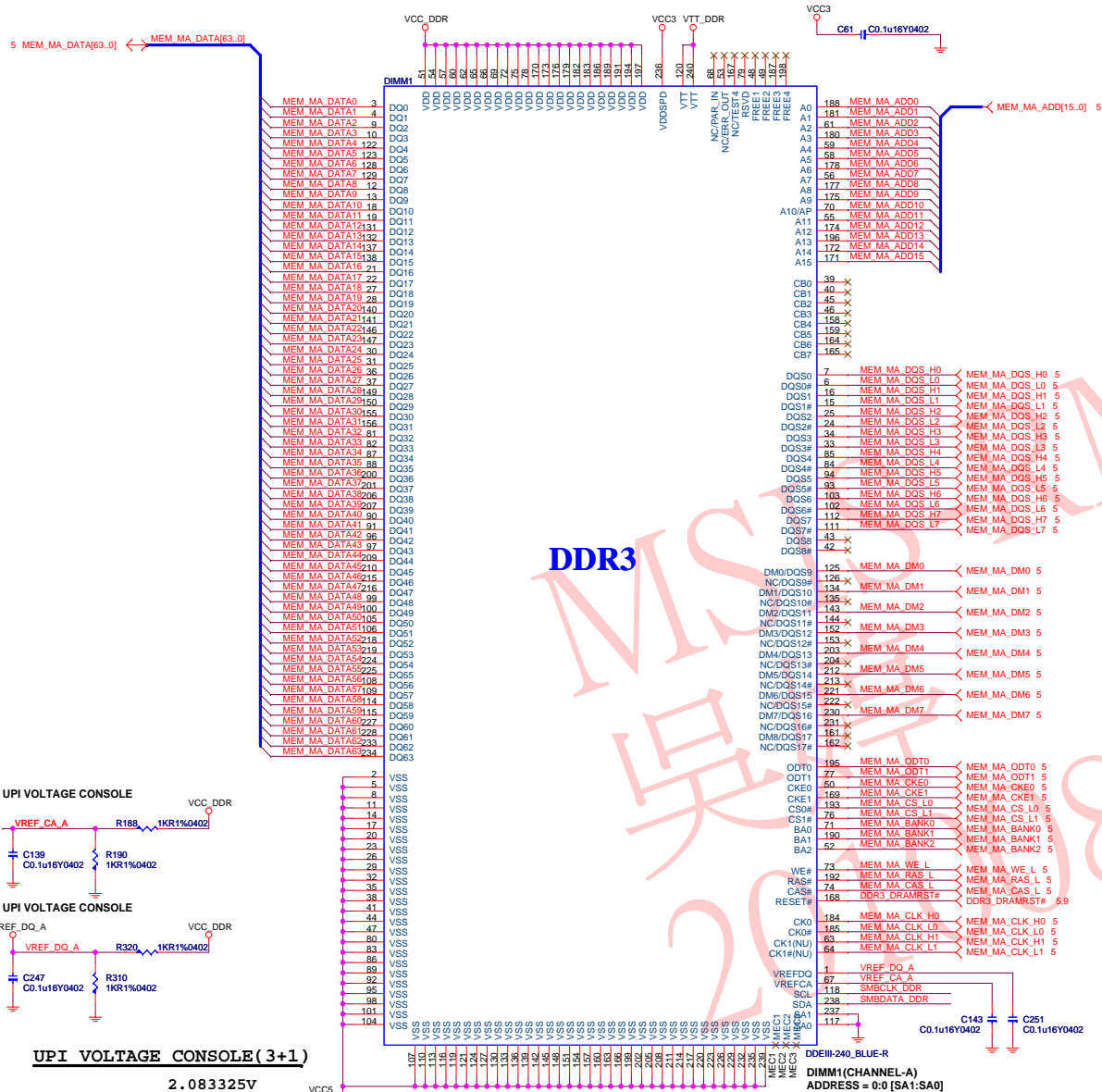


NOTE:R286,R274 STUFFED,JF DDR3 DIMM VREFDQ OPTION 2 UNSTUFFED.

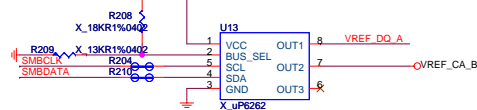


DDRIII DIMM_A2



UPI VOLTAGE CONSOLE(3+1)

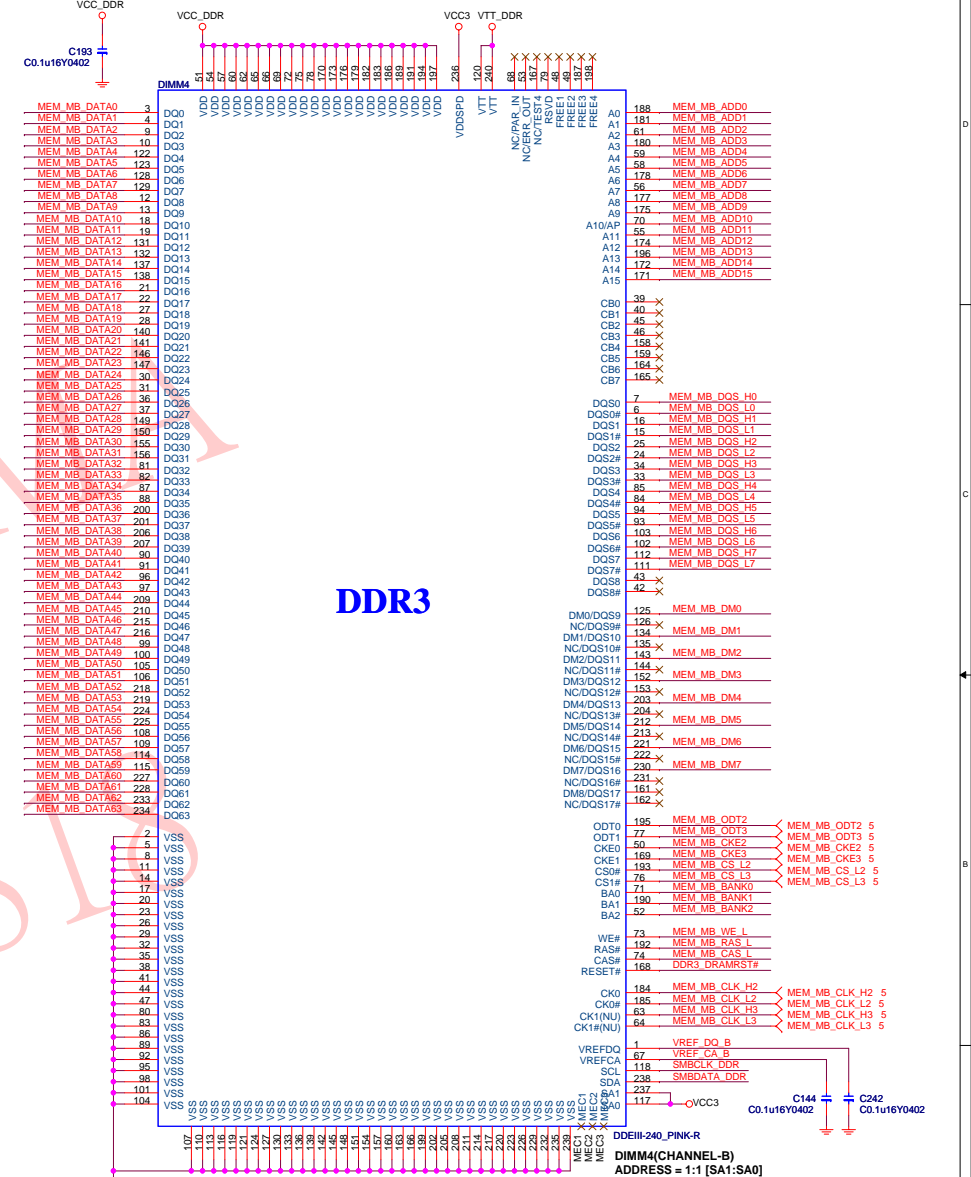
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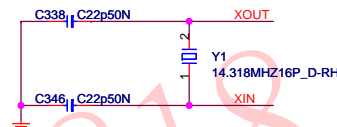
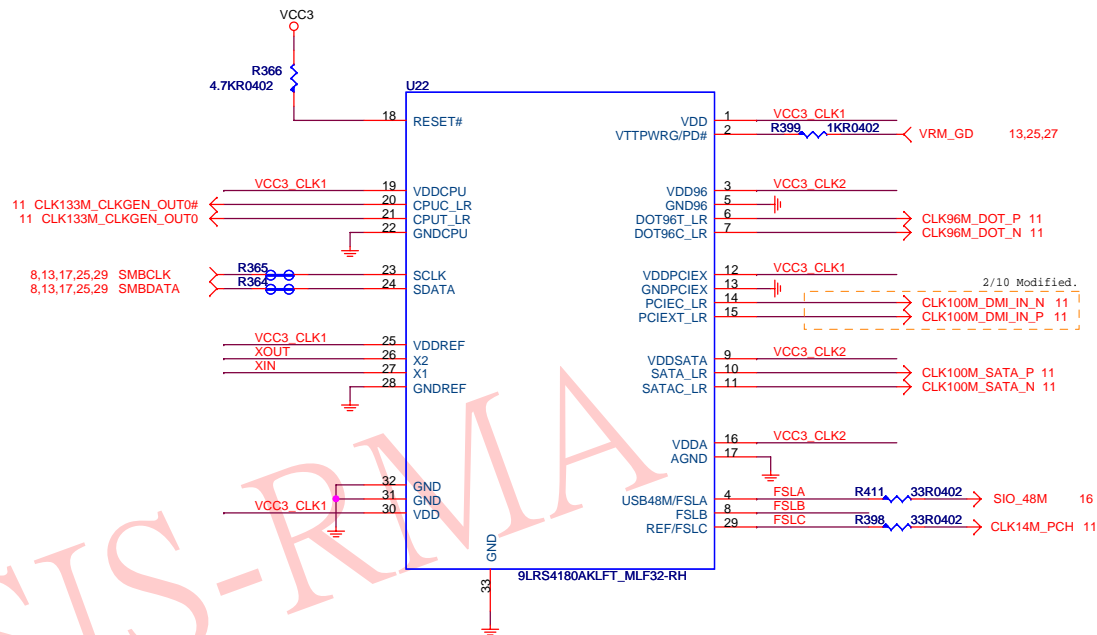
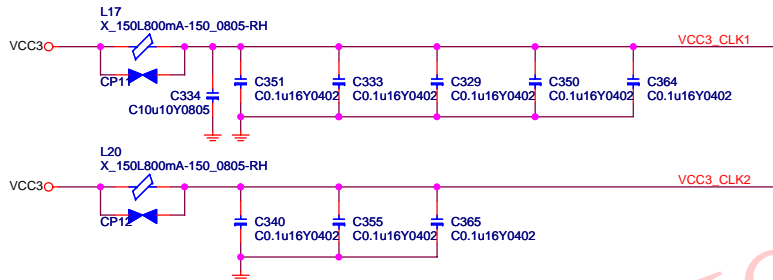
 MSI
Link to the Future **MICRO-START INT'L CO., LTD.**

Title			
DDR3 Chanel-A DIMM1/2			
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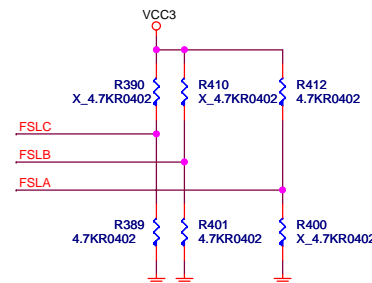
DDRIII DIMM_B2

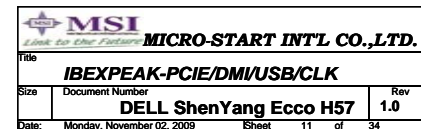


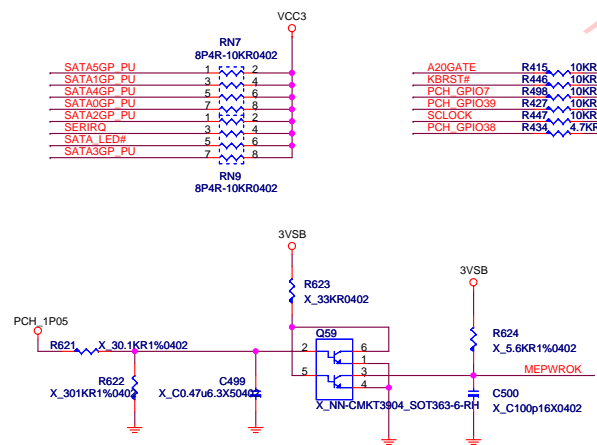
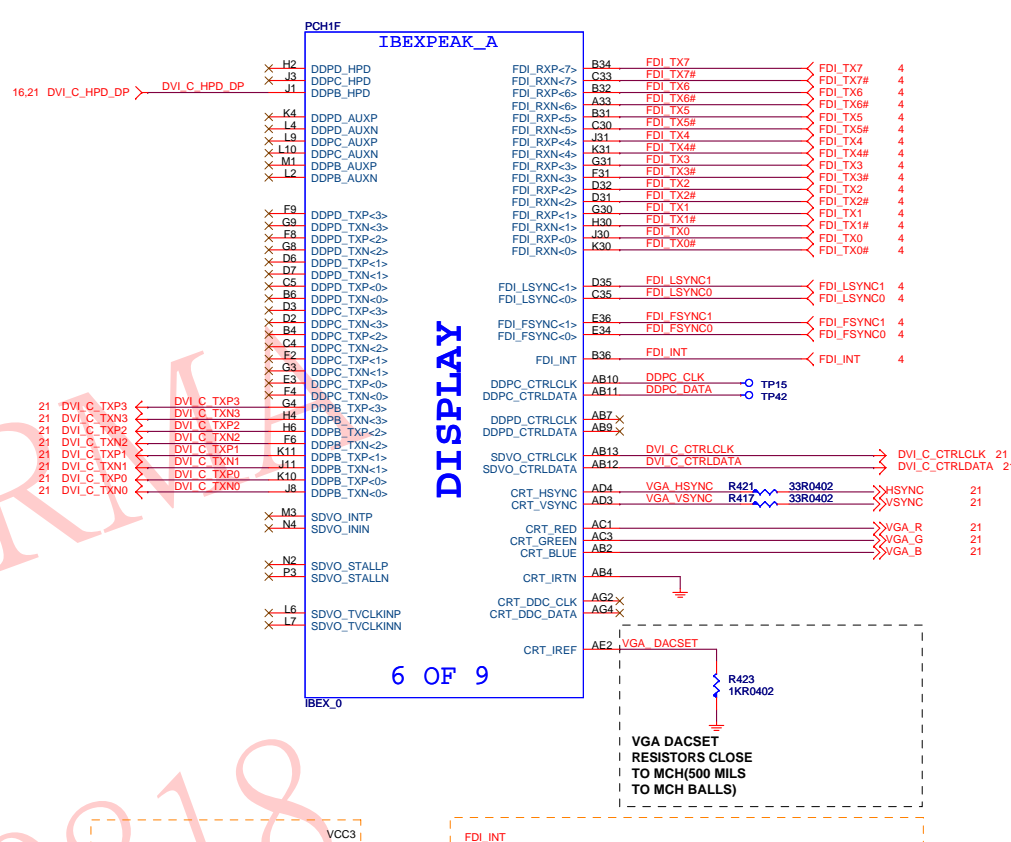
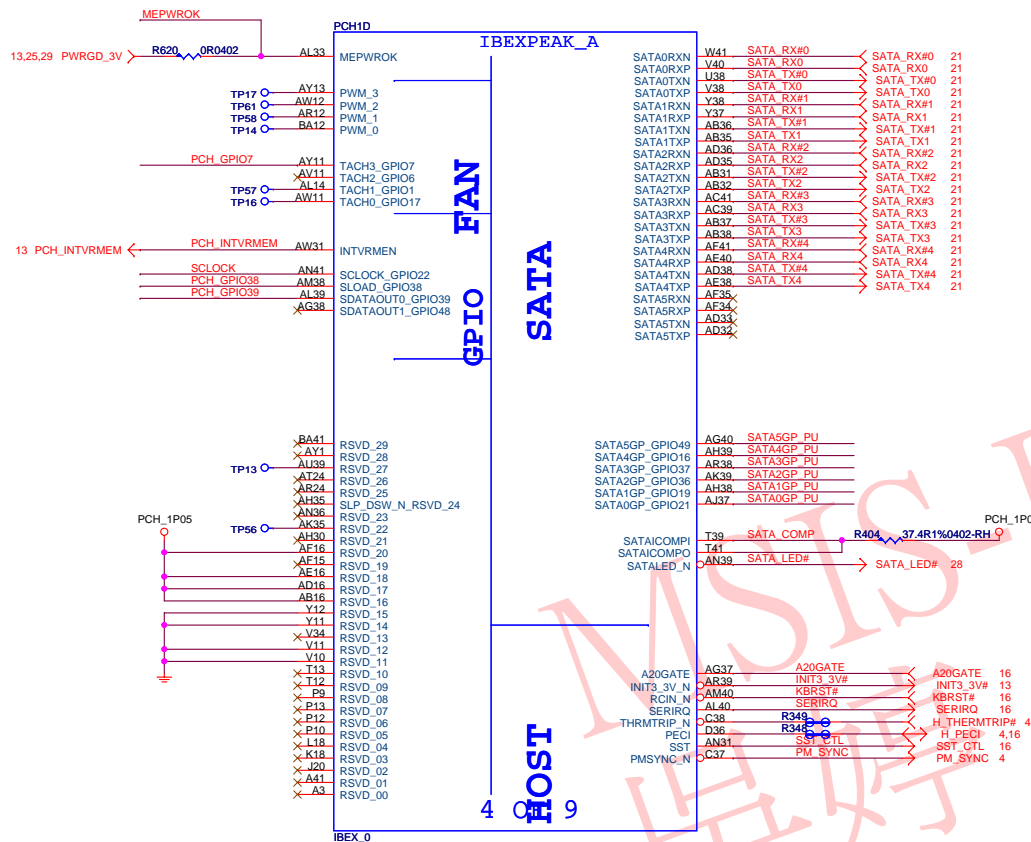
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Title DDR3 Chanel-B DIMM3/4							
Size		Document Number DELL ShenYang Ecco H57				Rev 1.0	
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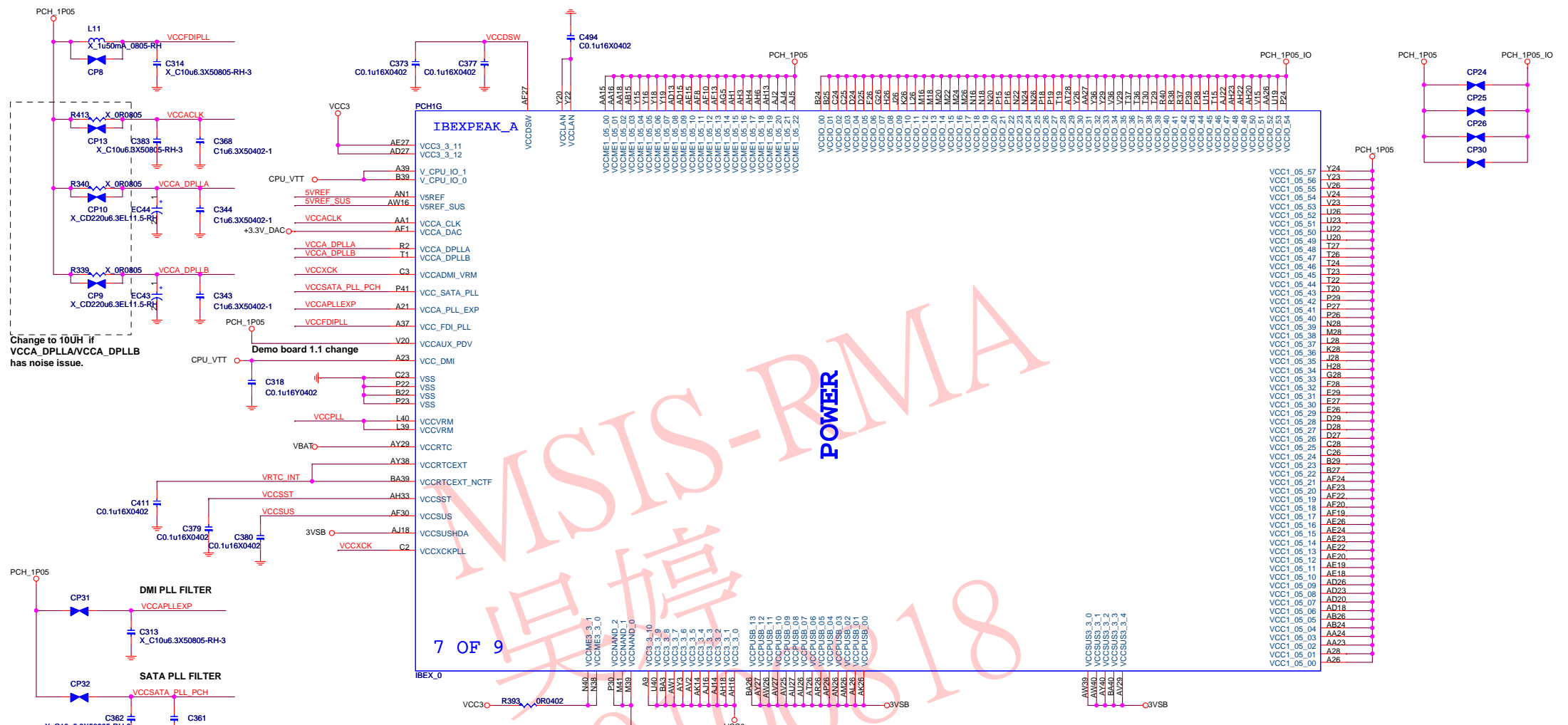


CLOCK EMI CAPS: DEFAULT EMPTY



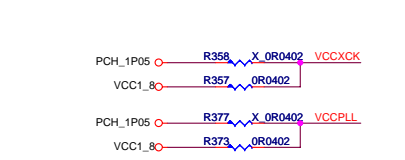
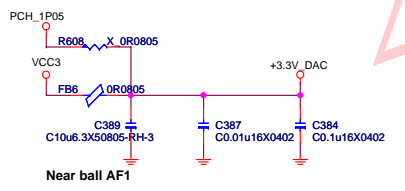
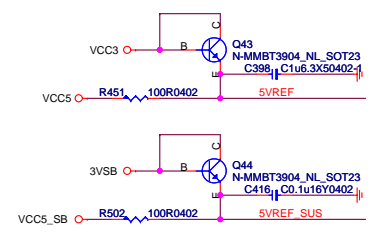




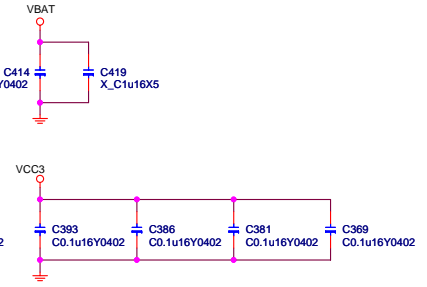
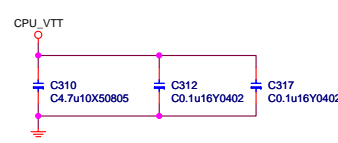
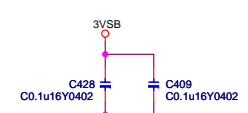
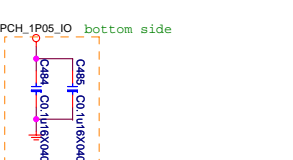
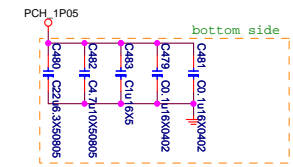



5VREF & 5VREF_SUS Sequencing Circuit

5VREF must be powered up before VCC3 or after VCC3 within 0.7V. Also, 5VREF must power down after VCC3 or before VCC3 within 0.7V. This rule is also applies to 5VREF_SUS and 3VSB. However, the 3VSB is derived from the 5VSB on the power supply thru a voltage regulator and therefore, they can satisfy the requirement.



PCH decoupling cap





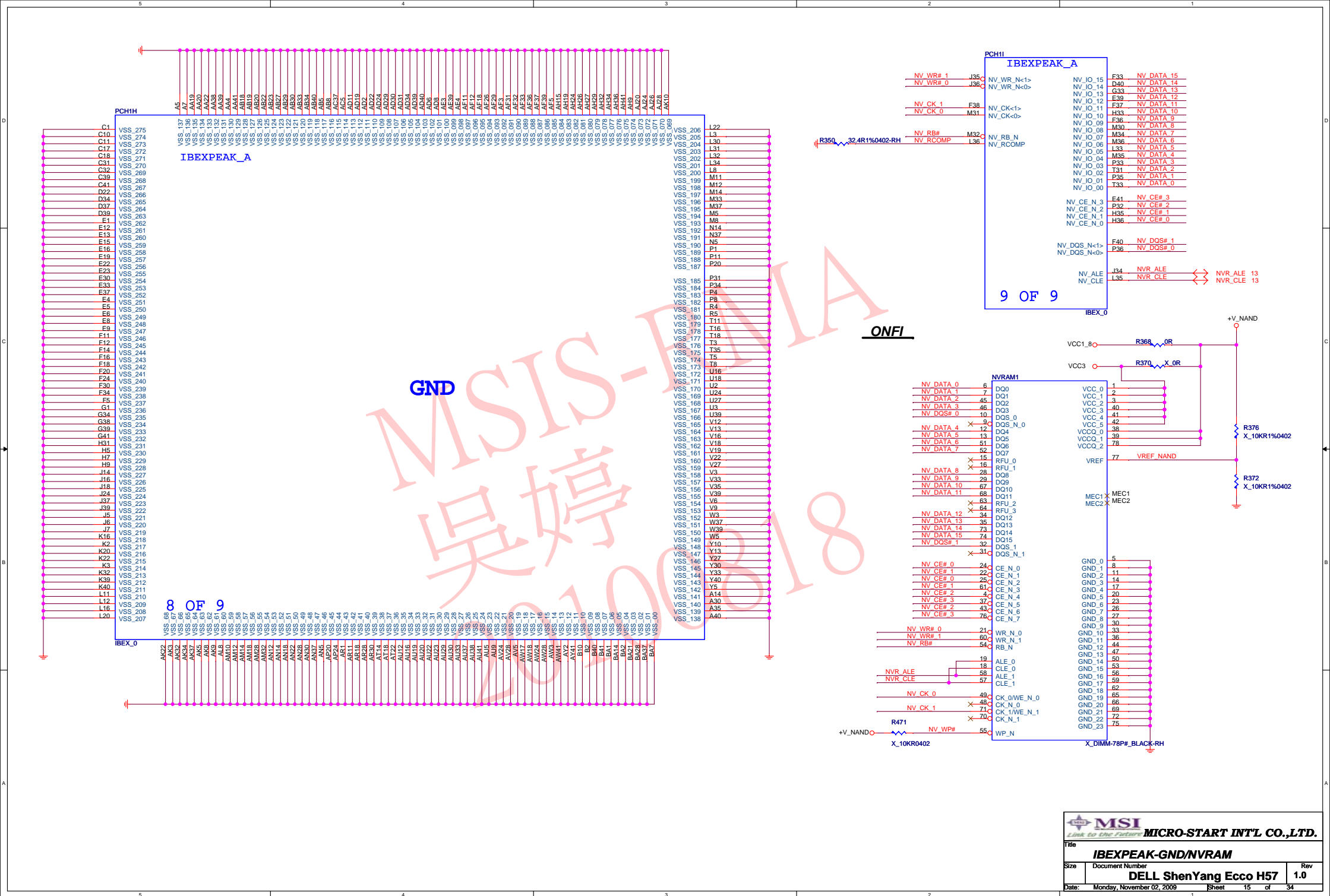
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MICRO-START INT'L CO.,LTD.

IBEXPEAK-POWER

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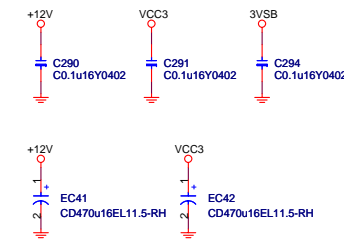


PCIE1					
X2	PRSTN1#	A1			
B1	12V#B1	A2			
B2	12V#B2	A3			
B3	RSVD#B3	A4			
B4	GND	A5	X		
B5	SMCLK	A6	X		
B6	GMDAT	A7	X		
B7	GND	A8	X		
B8	3.3V#B8	A9			
B9	JTAG1	A10			
B10	3.3V#AUX	A11			
B11	WAKE#	A12			
		A13			
		A14			
		A15			
		A16			
		A17			
		A18			
		A19	X		
		A20			
		A21			
		A22			
		A23			
		A24			
		A25			
		A26			
		A27			
		A28			
		A29			
		A30			
		A31			
		A32	X		
		A33	X		
		A34			
		A35			
		A36			
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		A47			
		A48			
		A49			
		A50	X		
		A51			
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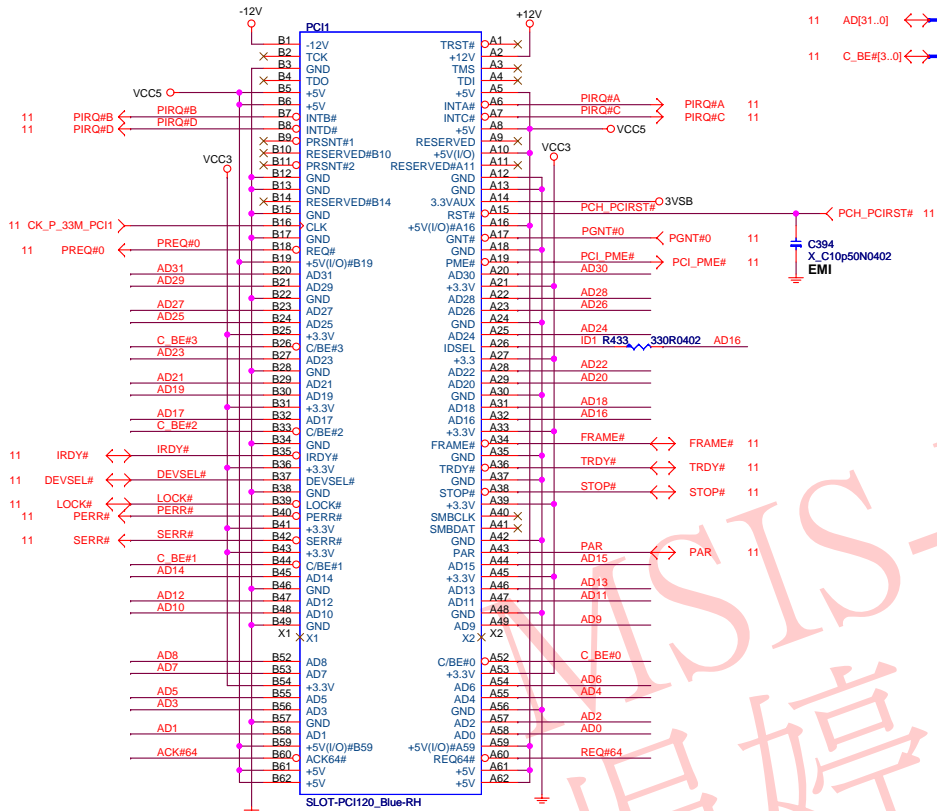
Pin connection diagram for the SLT-PCIe1_BLACK-R module. The diagram shows connections for power (3V3, VCC3, +12V), SMBus (SMBCLK, SMBDATA), Wake (WAKE#), PE4_TX, PE4_RX, and various control signals (PRSRNT1_#, REFCLK+, REFCLK-, HSIPO+, HSIPO-, PRSNT2_#). It also shows connections for the PLTRST_BUS1# signal.

Power and Ground Connections:

- 3V3: Connected to B1, B3, B5, B7, B9, B11, B13, B15, B17, B19, B21, B23, B25, B27, B29, B31, B33, B35, B37, B39, B41, B43, B45, B47, B49, B51, B53, B55, B57, B59, B61, B63, B65, B67, B69, B71, B73, B75, B77, B79, B81, B83, B85, B87, B89, B91, B93, B95, B97, B99, B101, B103, B105, B107, B109, B111, B113, B115, B117, B119, B121, B123, B125, B127, B129, B131, B133, B135, B137, B139, B141, B143, B145, B147, B149, B151, B153, B155, B157, B159, B161, B163, B165, B167, B169, B171, B173, B175, B177, B179, B181, B183, B185, B187, B189, B191, B193, B195, B197, B199, B201, B203, B205, B207, B209, B211, B213, B215, B217, B219, B221, B223, B225, B227, B229, B231, B233, B235, B237, B239, B241, B243, B245, B247, B249, B251, B253, B255, B257, B259, B261, B263, B265, B267, B269, B271, B273, B275, B277, B279, B281, B283, B285, B287, B289, B291, B293, B295, B297, B299, B301, B303, B305, B307, B309, B311, B313, B315, B317, B319, B321, B323, B325, B327, B329, B331, B333, B335, B337, B339, B341, B343, B345, B347, B349, B351, B353, B355, B357, B359, B361, B363, B365, B367, B369, B371, B373, B375, B377, B379, B381, B383, B385, B387, B389, B391, B393, B395, B397, B399, B401, B403, B405, B407, B409, B411, B413, B415, B417, B419, B421, B423, B425, B427, B429, B431, B433, B435, B437, B439, B441, B443, B445, B447, B449, B451, B453, B455, B457, B459, B461, B463, B465, B467, B469, B471, B473, B475, B477, B479, B481, B483, B485, B487, B489, B491, B493, B495, B497, B499, B501, B503, B505, B507, B509, B511, B513, B515, B517, B519, B521, B523, B525, B527, B529, B531, B533, B535, B537, B539, B541, B543, B545, B547, B549, B551, B553, B555, B557, B559, B561, B563, B565, B567, B569, B571, B573, B575, B577, B579, B581, B583, B585, B587, B589, B591, B593, B595, B597, B599, B601, B603, B605, B607, B609, B611, B613, B615, B617, B619, B621, B623, B625, B627, B629, B631, B633, B635, B637, B639, B641, B643, B645, B647, B649, B651, B653, B655, B657, B659, B661, B663, B665, B667, B669, B671, B673, B675, B677, B679, B681, B683, B685, B687, B689, B691, B693, B695, B697, B699, B701, B703, B705, B707, B709, B711, B713, B715, B717, B719, B721, B723, B725, B727, B729, B731, B733, B735, B737, B739, B741, B743, B745, B747, B749, B751, B753, B755, B757, B759, B761, B763, B765, B767, B769, B771, B773, B775, B777, B779, B781, B783, B785, B787, B789, B791, B793, B795, B797, B799, B801, B803, B805, B807, B809, B811, B813, B815, B817, B819, B821, B823, B825, B827, B829, B831, B833, B835, B837, B839, B841, B843, B845, B847, B849, B851, B853, B855, B857, B859, B861, B863, B865, B867, B869, B871, B873, B875, B877, B879, B881, B883, B885, B887, B889, B891, B893, B895, B897, B899, B901, B903, B905, B907, B909, B911, B913, B915, B917, B919, B921, B923, B925, B927, B929, B931, B933, B935, B937, B939, B941, B943, B945, B947, B949, B951, B953, B955, B957, B959, B961, B963, B965, B967, B969, B971, B973, B975, B977, B979, B981, B983, B985, B987, B989, B991, B993, B995, B997, B999, B1001, B1003, B1005, B1007, B1009, B1011, B1013, B1015, B1017, B1019, B1021, B1023, B1025, B1027, B1029, B1031, B1033, B1035, B1037, B1039, B1041, B1043, B1045, B1047, B1049, B1051, B1053, B1055, B1057, B1059, B1061, B1063, B1065, B1067, B1069, B1071, B1073, B1075, B1077, B1079, B1081, B1083, B1085, B1087, B1089, B1091, B1093, B1095, B1097, B1099, B1101, B1103, B1105, B1107, B1109, B1111, B1113, B1115, B1117, B1119, B1121, B1123, B1125, B1127, B1129, B1131, B1133, B1135, B1137, B1139, B1141, B1143, B1145, B1147, B1149, B1151, B1153, B1155, B1157, B1159, B1161, B1163, B1165, B1167, B1169, B1171, B1173, B1175, B1177, B1179, B1181, B1183, B1185, B1187, B1189, B1191, B1193, B1195, B1197, B1199, B1201, B1203, B1205, B1207, B1209, B1211, B1213, B1215, B1217, B1219, B1221, B1223, B1225, B1227, B1229, B1231, B1233, B1235, B1237, B1239, B1241, B1243, B1245, B1247, B1249, B1251, B1253, B1255, B1257, B1259, B1261, B1263, B1265, B1267, B1269, B1271, B1273, B1275, B1277, B1279, B1281, B1283, B1285, B1287, B1289, B1291, B1293, B1295, B1297, B1299, B1301, B1303, B1305, B1307, B1309, B1311, B1313, B1315, B1317, B1319, B1321, B1323, B1325, B1327, B1329, B1331, B1333, B1335, B1337, B1339, B1341, B1343, B1345, B1347, B1349, B1351, B1353, B1355, B1357, B1359, B1361, B1363, B1365, B1367, B1369, B1371, B1373, B1375, B1377, B1379, B1381, B1383, B1385, B1387, B1389, B1391, B1393, B1395, B1397, B1399, B1401, B1403, B1405, B1407, B1409, B1411, B1413, B1415, B1417, B1419, B1421, B1423, B1425, B1427, B1429, B1431, B1433, B1435, B1437, B1439, B1441, B1443, B1445, B1447, B1449, B1451, B1453, B1455, B1457, B1459, B1461, B1463, B1465, B1467, B1

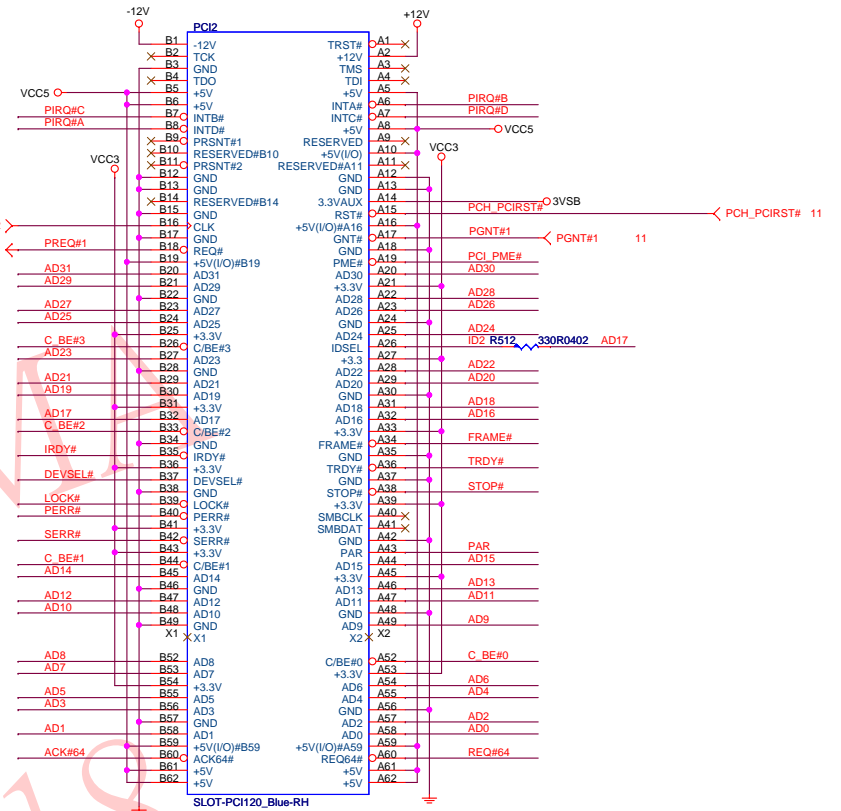


PCI SLOT 1 (PCI VER: 2.2 COMPLY)



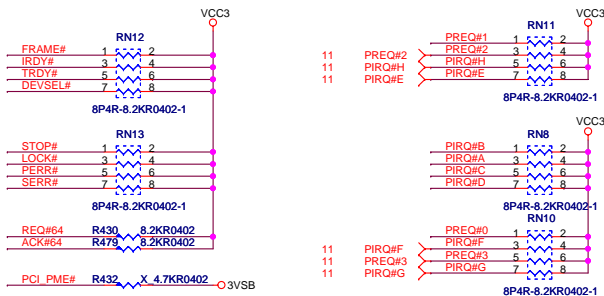
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PIRQ#A

PCI SLOT 2 (PCI VER: 2.2 COMPLY)



IDSEL = AD17
MASTER = PREQ#1
PIRQ#B

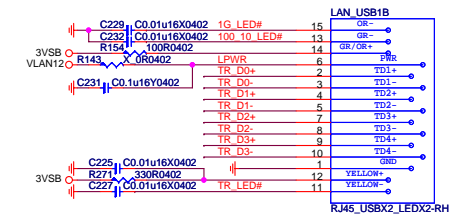
PCI PULL-UP / DOWN RESISTORS



EMI CAPS



LAN Connector



The schematic shows the connection of the 24LC02BT1-SN-RH (U23) to the EECLK and EEDATA signals. The 3V3B supply is connected to pin 1 (VCC). The EECLK signal is connected to pin 8 (VCC) and passes through a 1k resistor (R383) to ground. The EEDATA signal is connected to pin 5 (SDA) and passes through a 1k resistor (R402) to ground. A capacitor C370 is connected between the 3V3B supply and the EECLK line.

For Broadcom suggestion

VLAN12

C348 C0.1u16Y0402

C392 C0.1u16Y0402

C390 C0.1u16Y0402

C388 C0.1u16Y0402

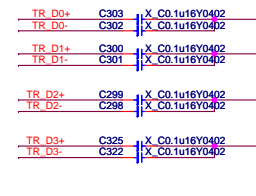
C295 C4.7u10x50805-RH

C319 C0.1u16Y0402

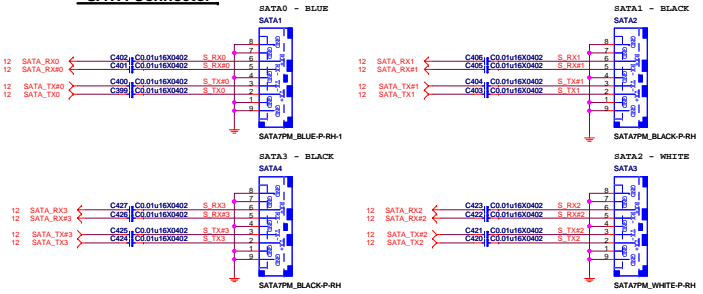
C342 C0.1u16Y0402

C391 C0.1u16Y0402

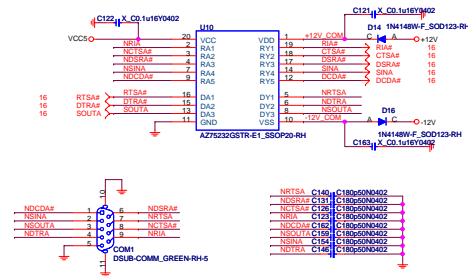
For Broadcom suggestion



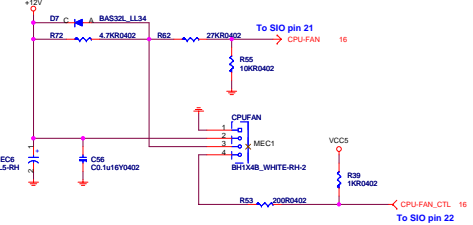
SATA Connector



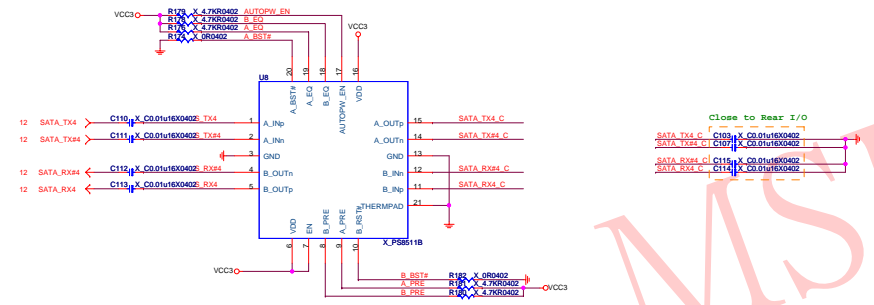
Serial Port



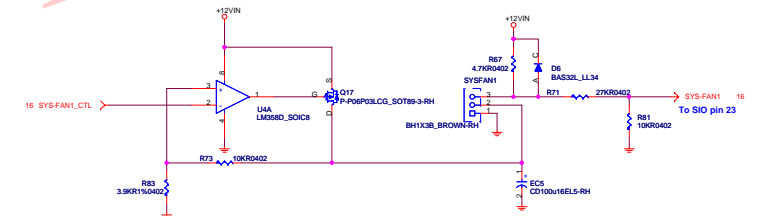
CPU Fan



eSATA Re-Driver (Optional)

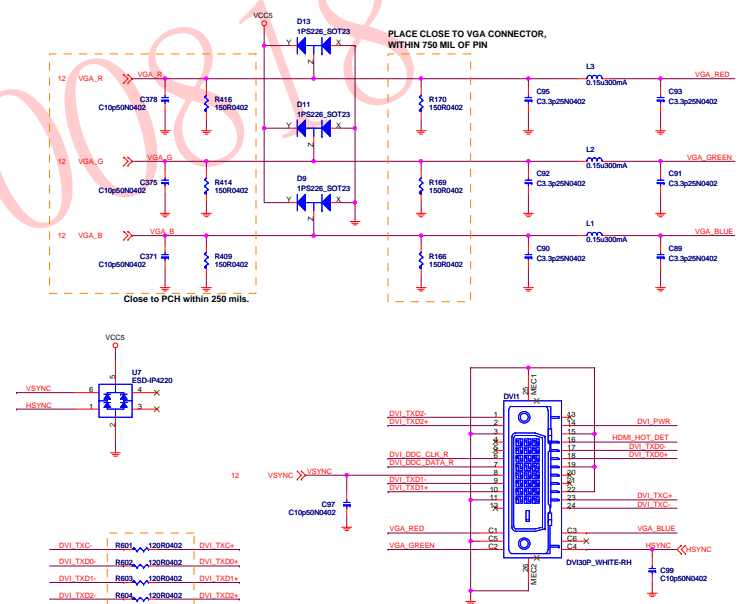
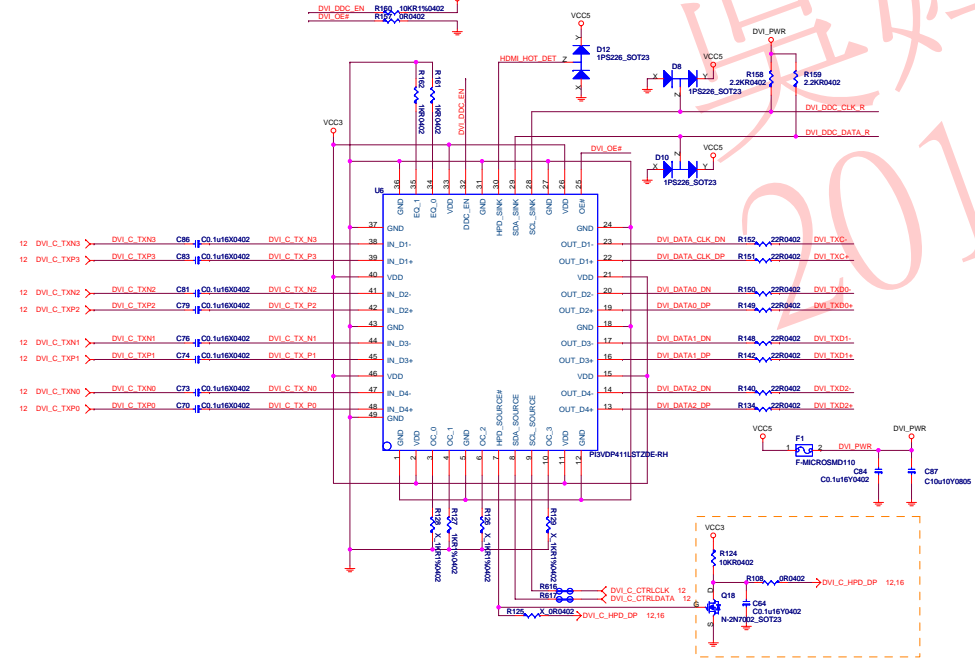


System Fan

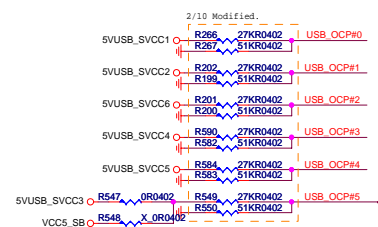
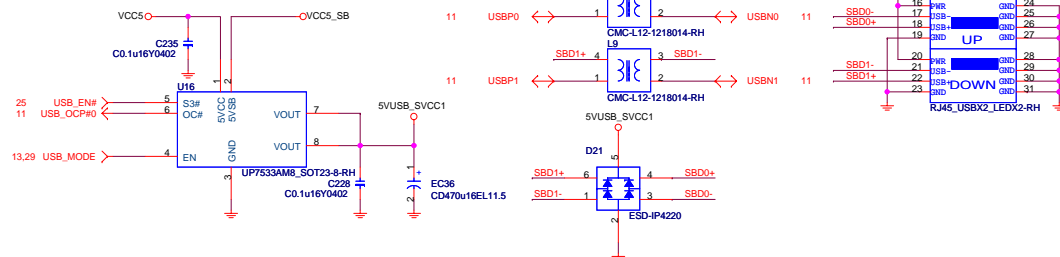


DVI-I Connector

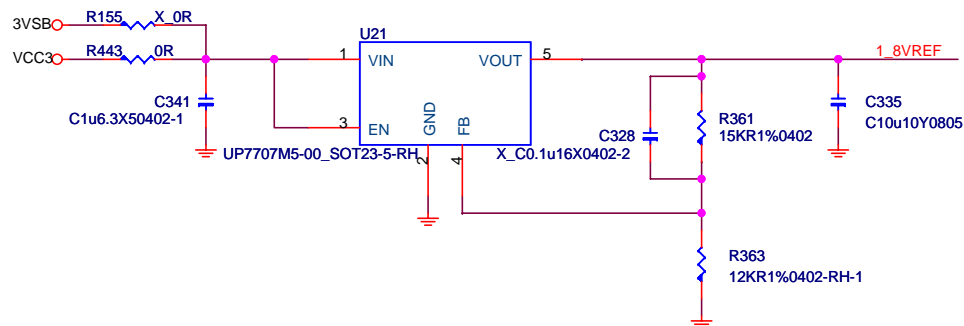
stuff for H57 chipset



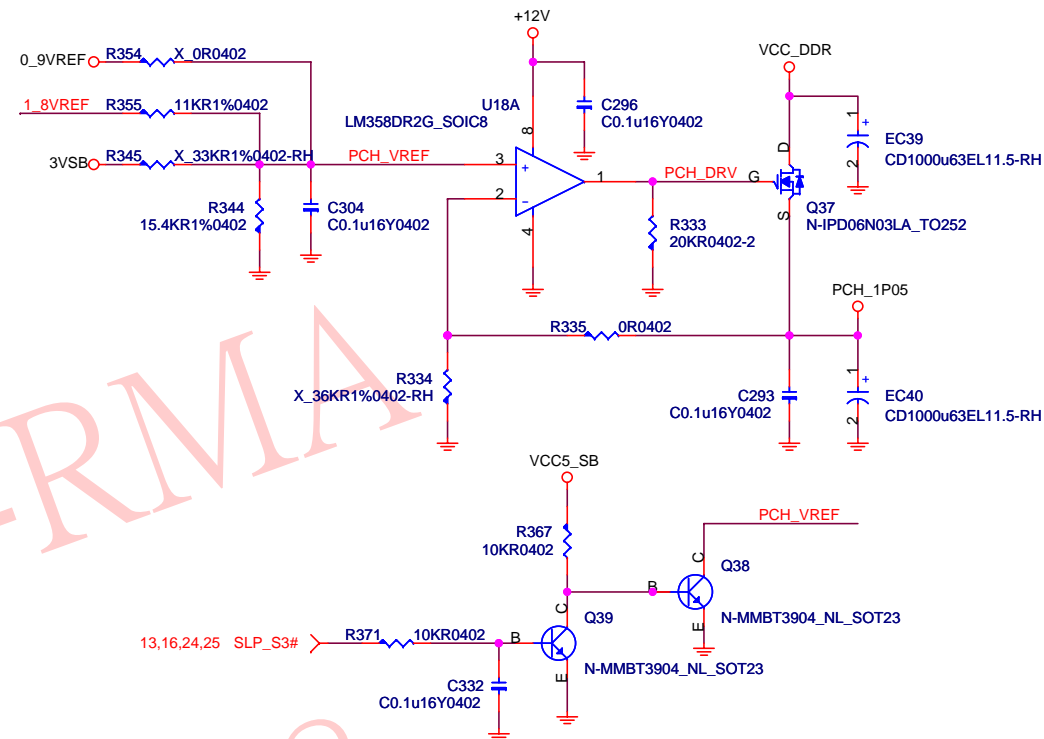
Rear USB Connector For USB Port 0 / 1

[illegible]

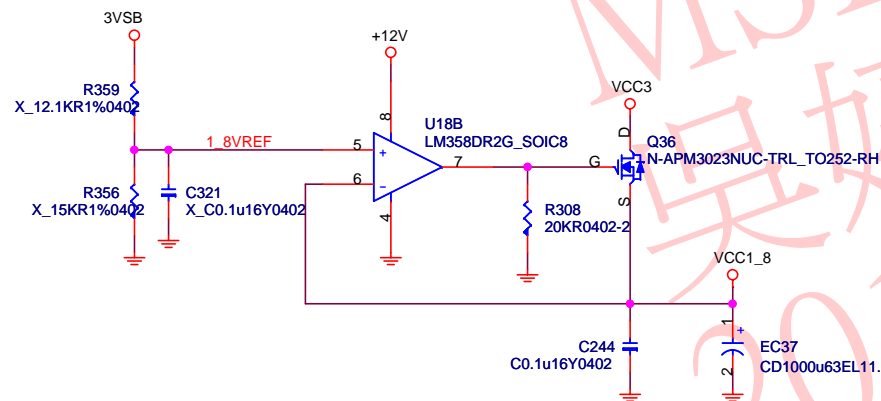
1.8V Reference Power




PCH Core Power 1.05V - 6.5A

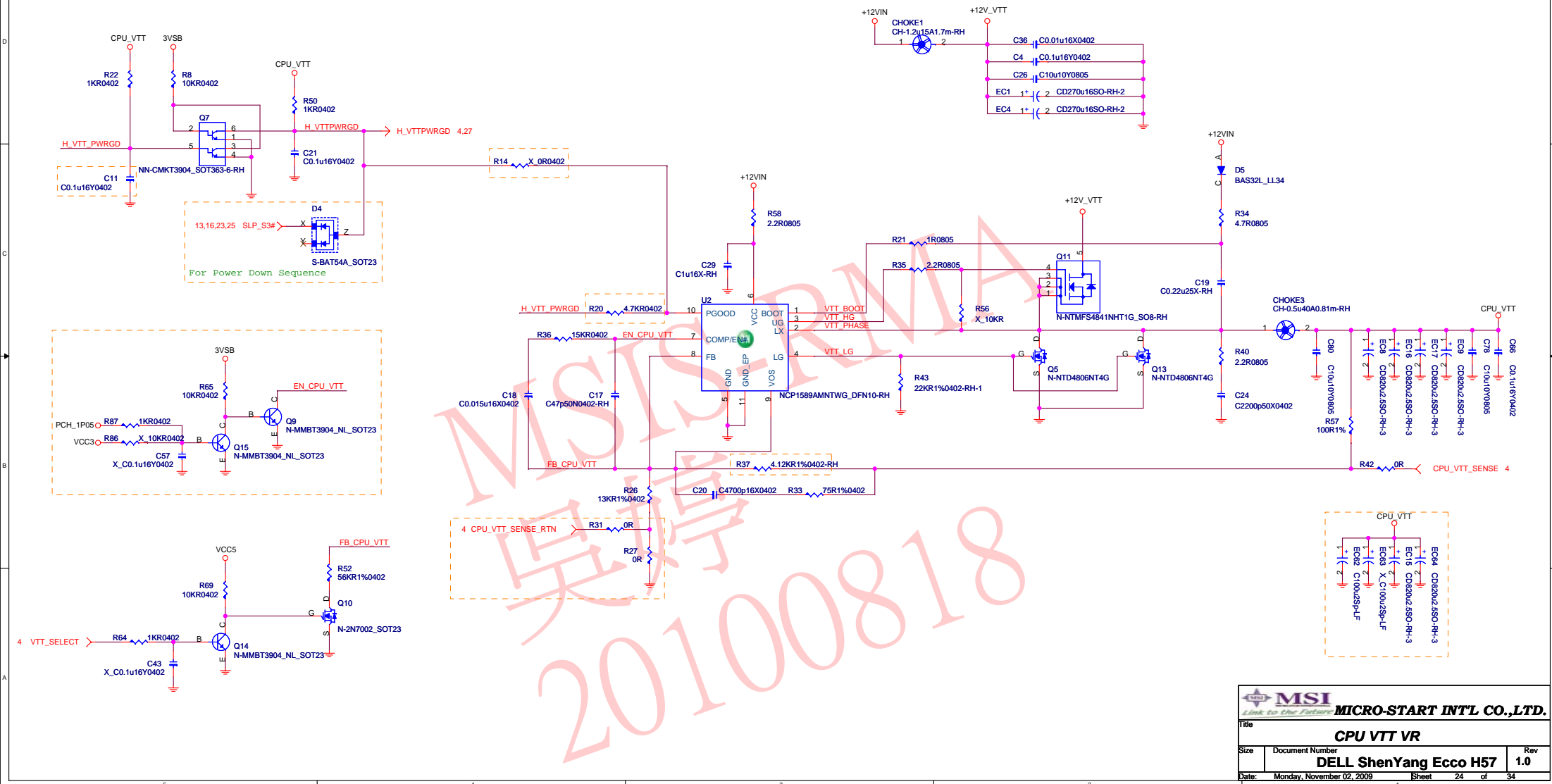


1.8V VSFR 1.5A

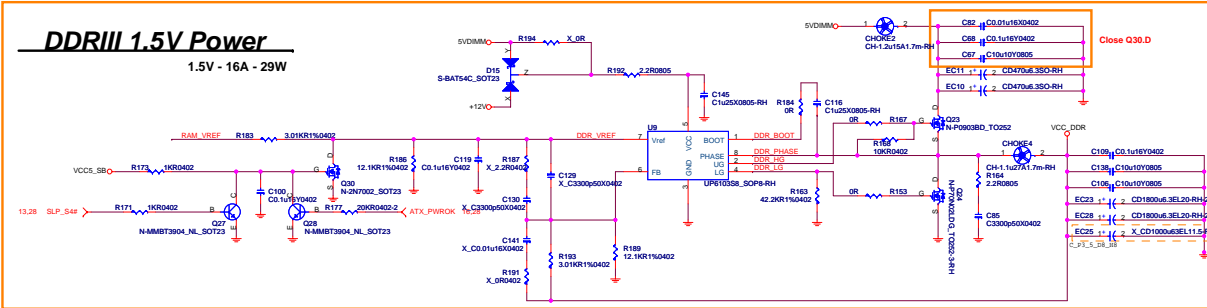


 MSI <small>Link to the Future</small>		MICRO-START INT'L CO.,LTD.	
Title			
PCH Core Power			
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Date:	Monday, November 02, 2009	Sheet	23 of 34

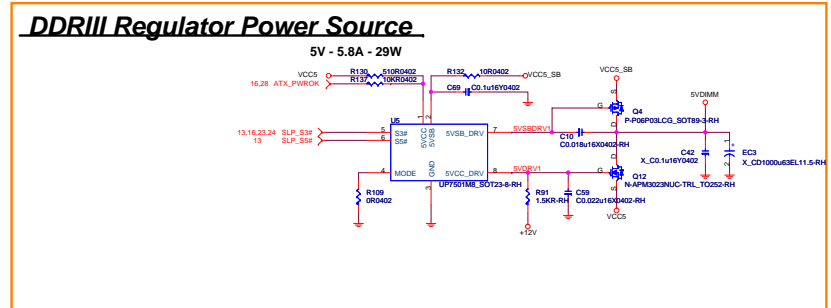
CPU VTT Power
1.1V - 30A - 29W



1.5V - 16A - 29W

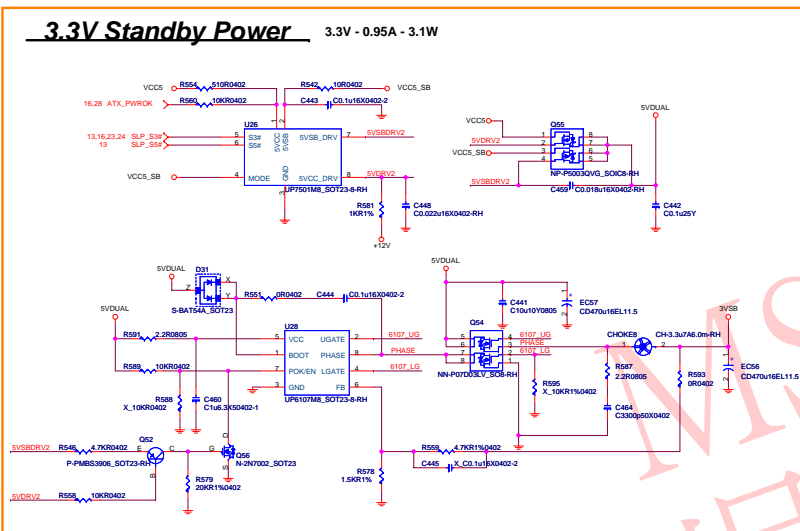


DDRIII Regulator Power Source

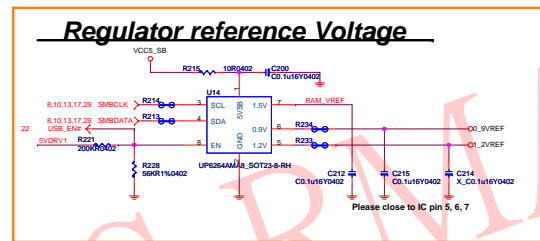


3.3V Standby Power

3.3V - 0.95A - 3.1W

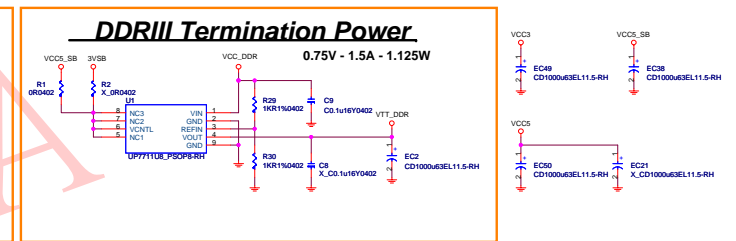


Regulator reference Voltage

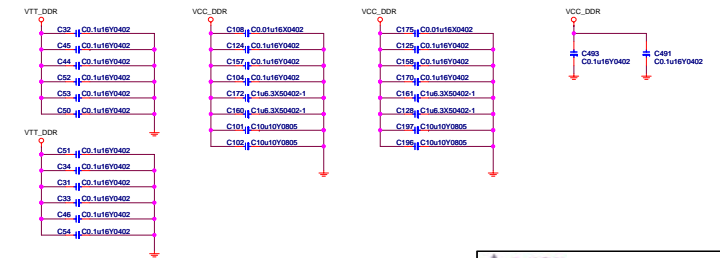


DDRIII Termination Power

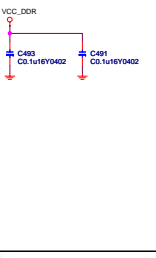
0.75V - 1.5A - 1.125W

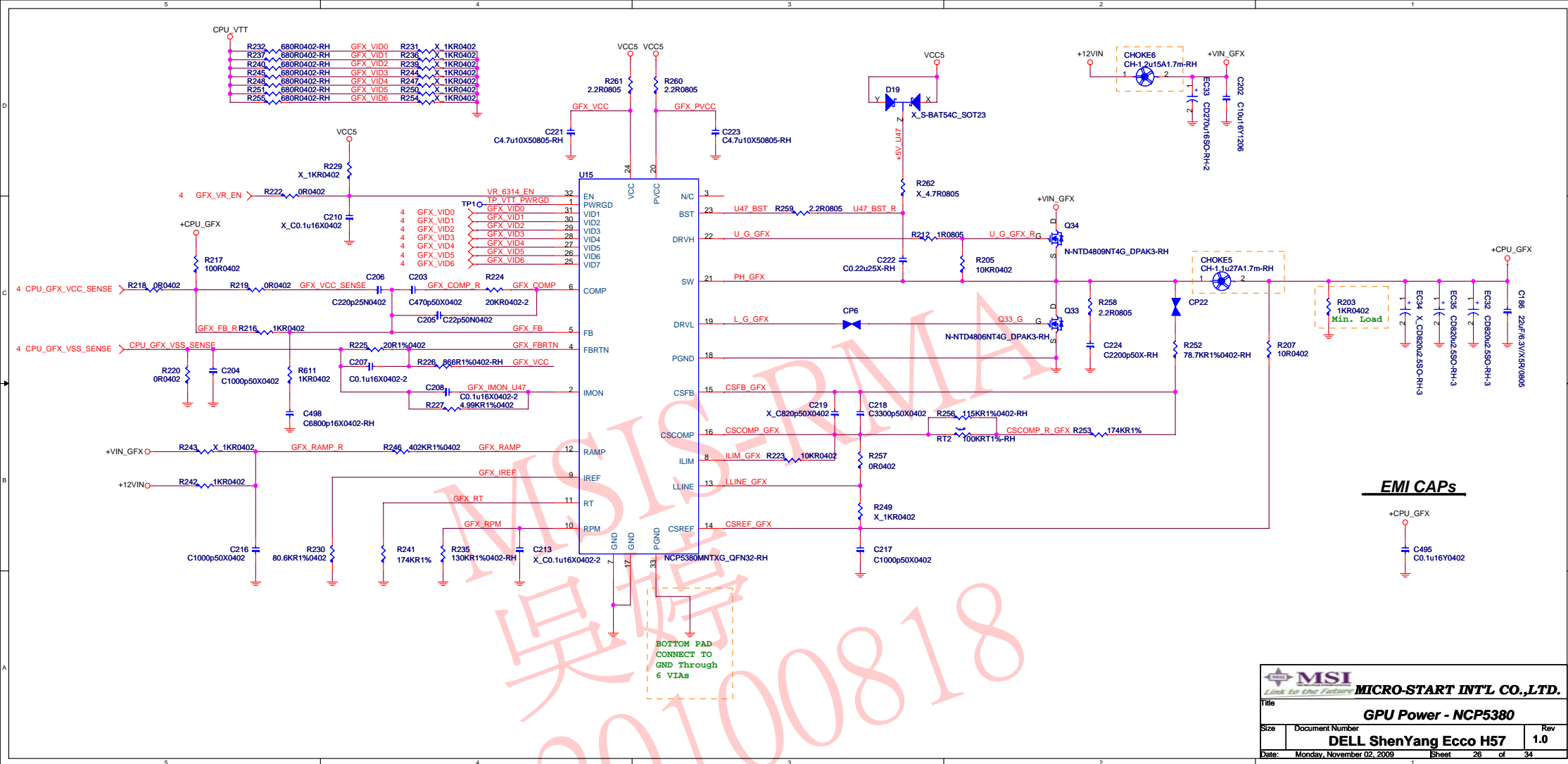


DDRIII I/O power decoupling caps.

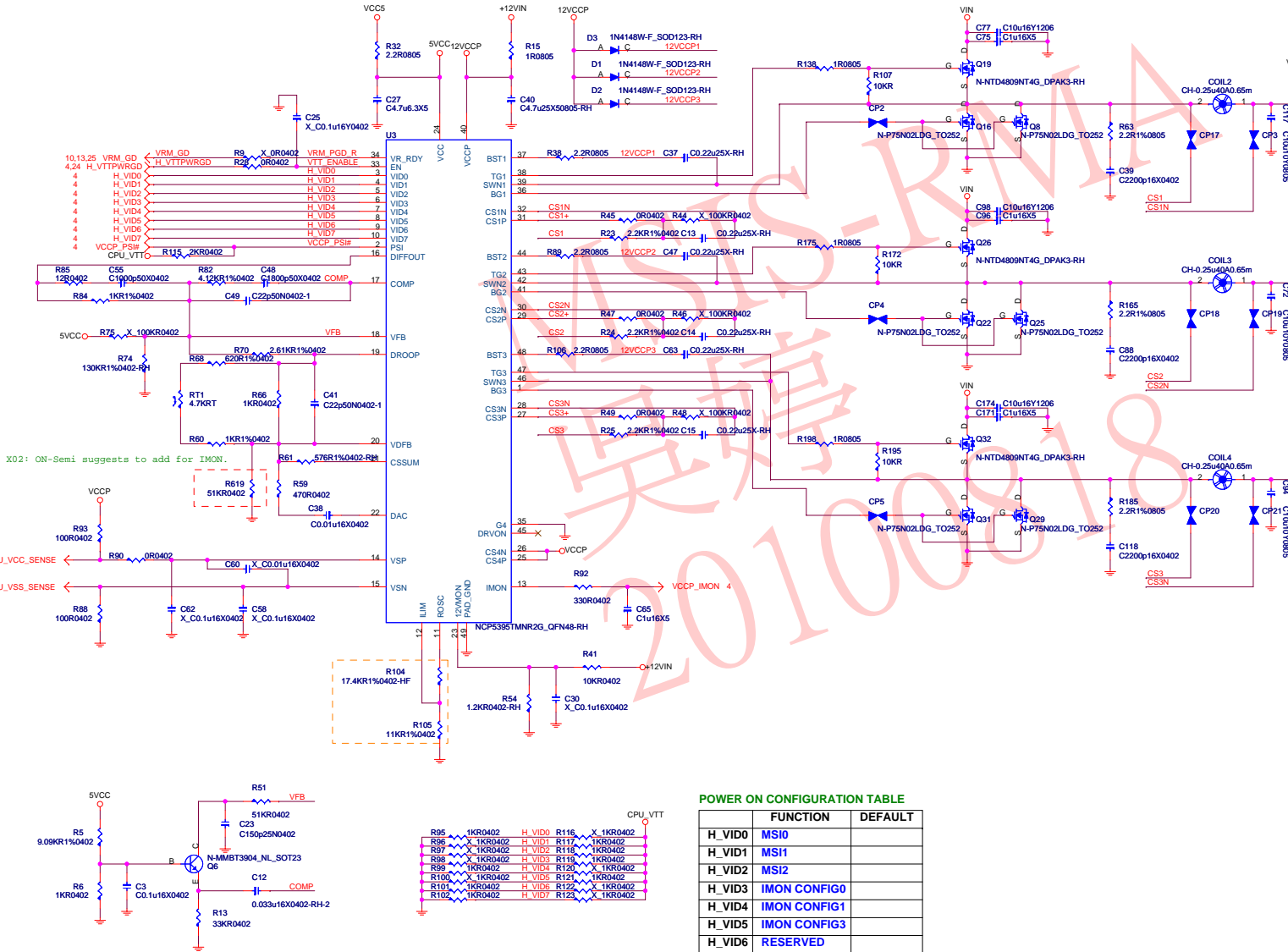
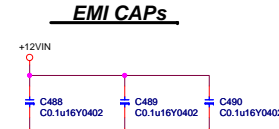
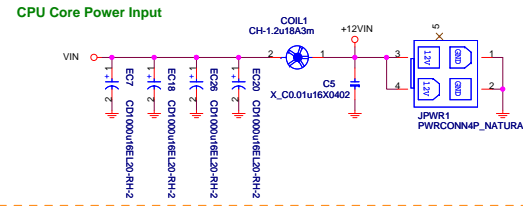
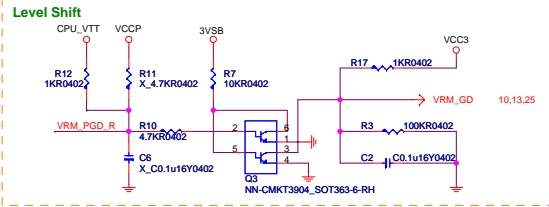


EMI CAPs

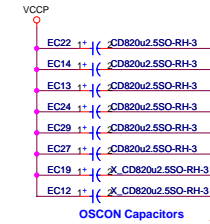




Voltage Regular Module (VRD11.1)



Core Power Output cap.

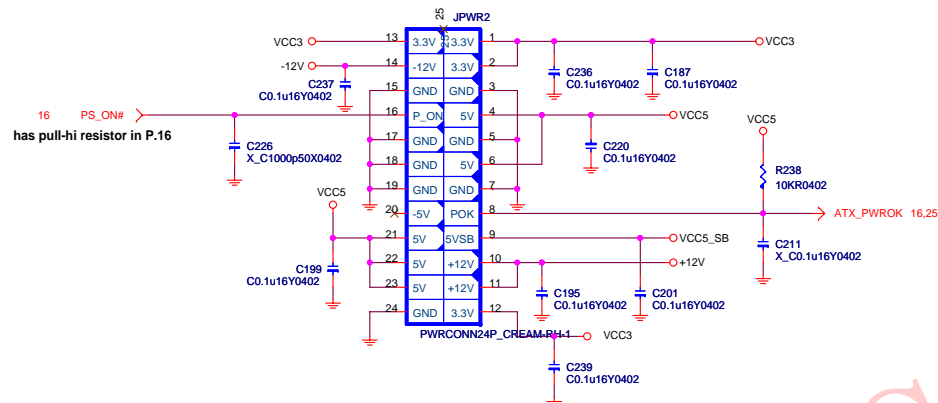


POWER ON CONFIGURATION TABLE

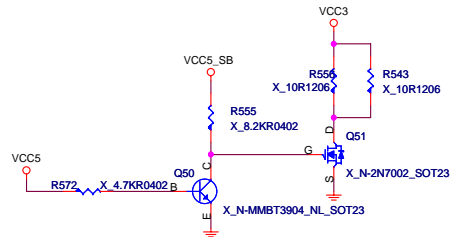
	FUNCTION	DEFAULT
H_VID0	MSI0	
H_VID1	MSI1	
H_VID2	MSI2	
H_VID3	IMON CONFIG0	
H_VID4	IMON CONFIG1	
H_VID5	IMON CONFIG3	
H_VID6	RESERVED	
H_VID7	VRD SELECT	LOW
PSI#	RESERVED	LOW

ATX Power Connector / Front Panel / LED

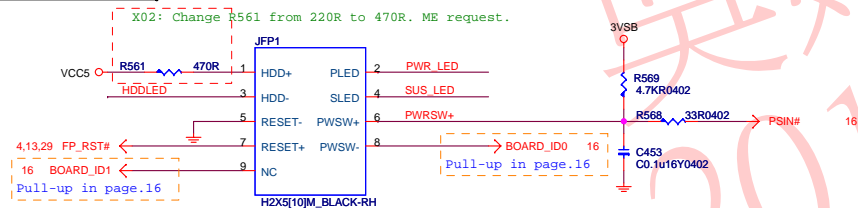
24 Pin ATX Power Connector



Dummy Load

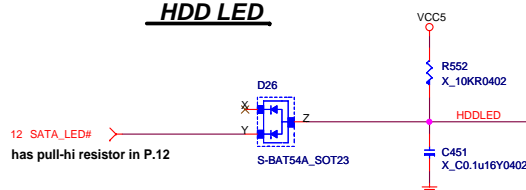


Front Panel



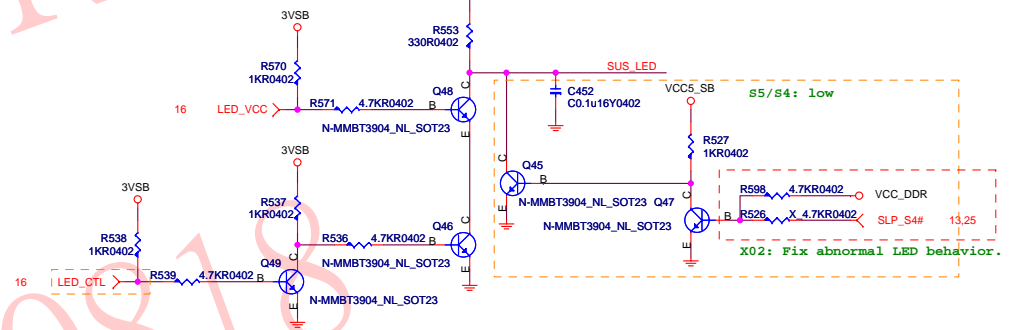
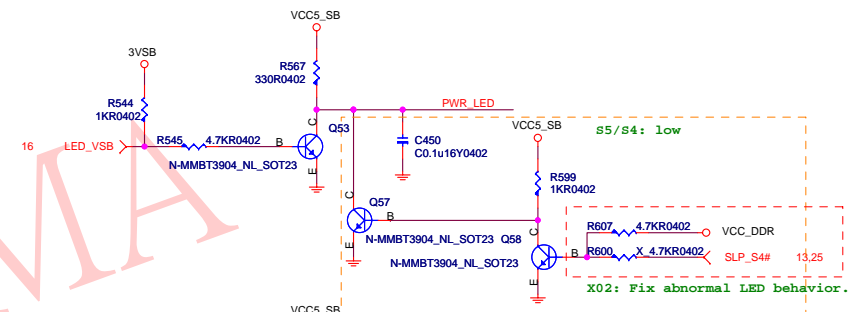
	BOARD_ID0	BOARD_ID1
No Cable	H	H
Shen-Yang	L	L
ECCO	L	H

HDD LED

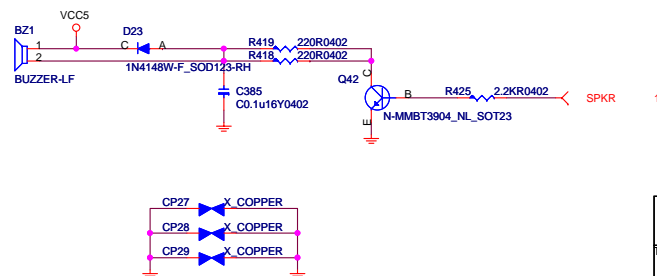


Power LED

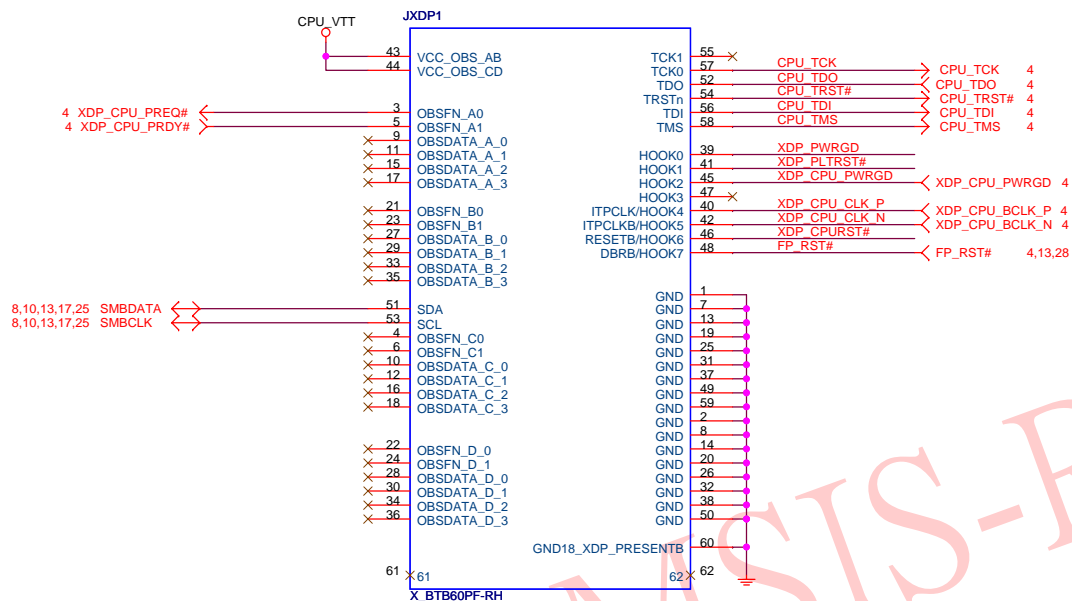
	LED_VSB	LED_VCC	LED_CTL	PWR_LED	SUS_LED
S4/S5	H	H	L	L	L
S0	L	H	L	H	L
S1/S3	Blinking	H	L	Blinking	L
Failure to Post	Blinking	L	L	Blinking	H
No Post	H	H	H	L	H



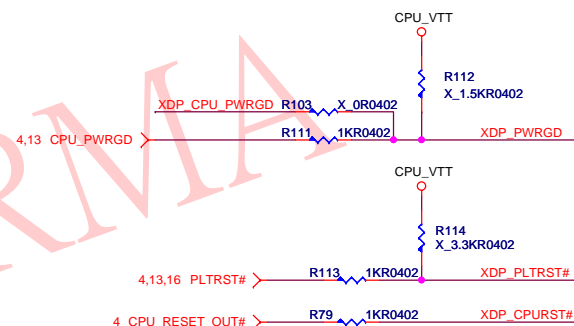
Buzzer Circuit



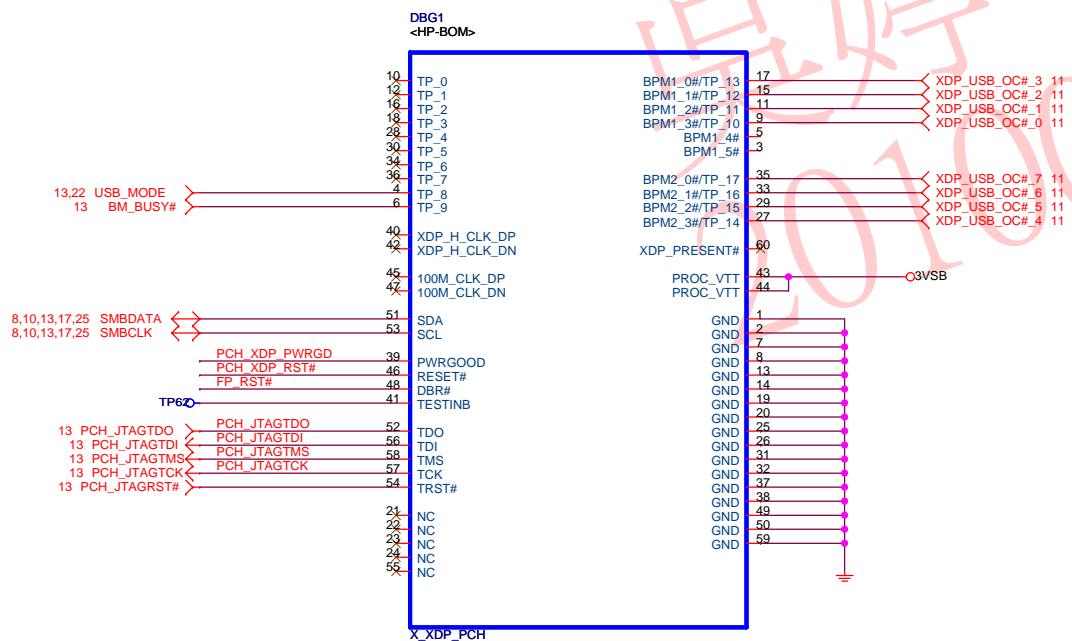
Reserve debug port 5020



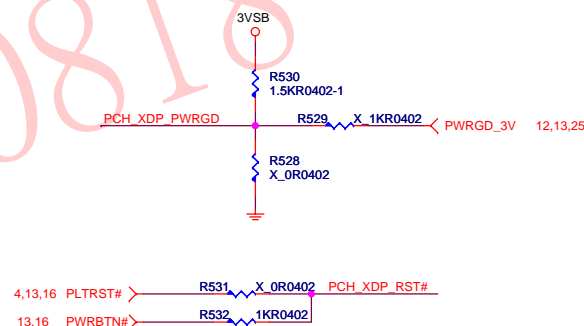
PLACE NEAR XDP CONNECTOR



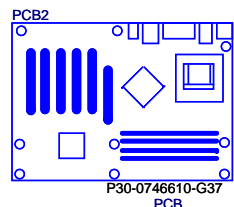
PCH XDP



PCH XDP PWRGD/RESET

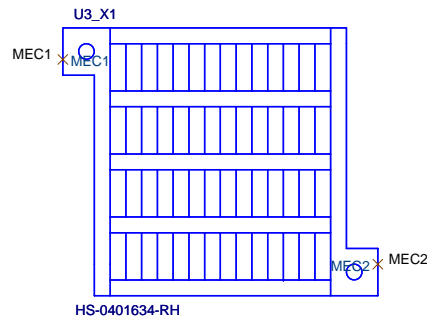
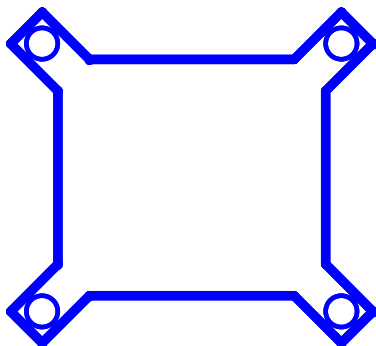


Manual Parts

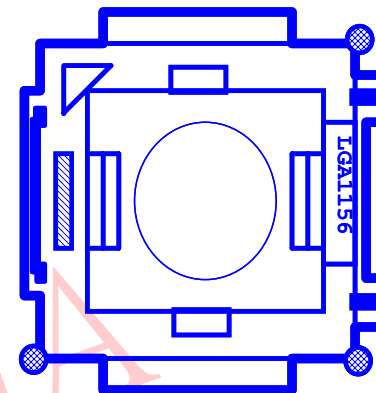


P30-0746610-E55
P30-0746610-G37

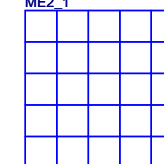
XU1_X2
CPU RETENTION BACKPLATE



XU1_X1
CPU SOCKET

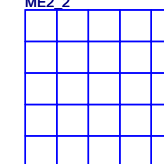


ME2_1



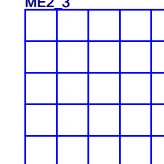
Ginway

ME2_2



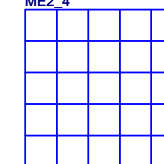
Ginway

ME2_3



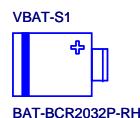
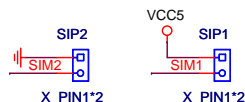
Ginway

ME2_4



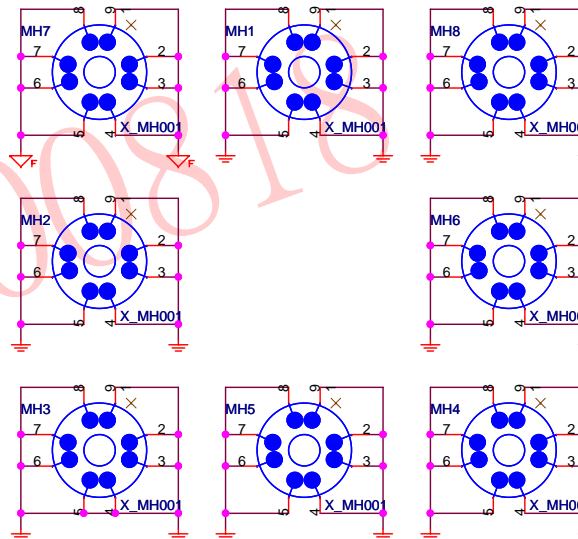
Ginway

Simulation



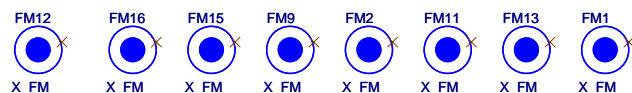
PCB Mounting Holes

Mounting Holes



Optics Orientation Holes

Optical Fiducial Marks-120



Optical Fiducial Marks-100

