

P2131_A00

GK208 GDDR5 128X32Bit

DP+DP

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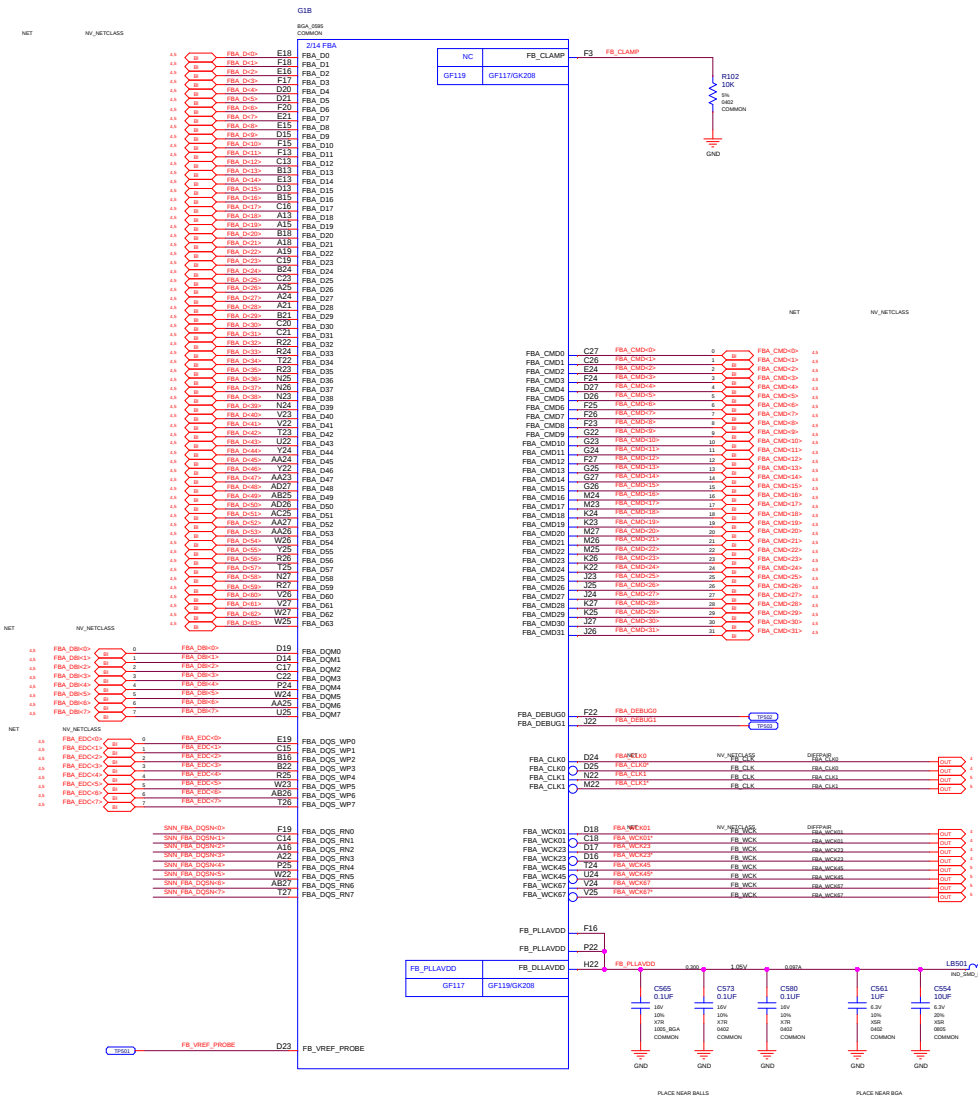
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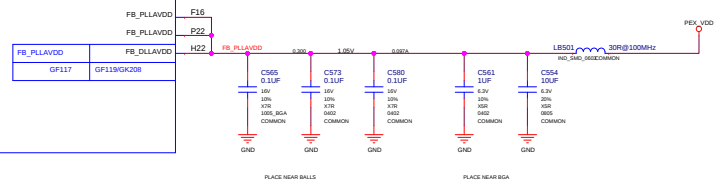
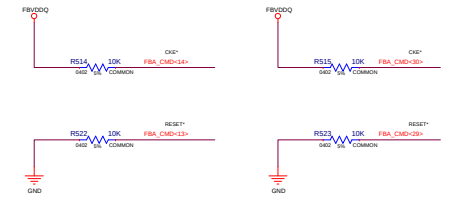
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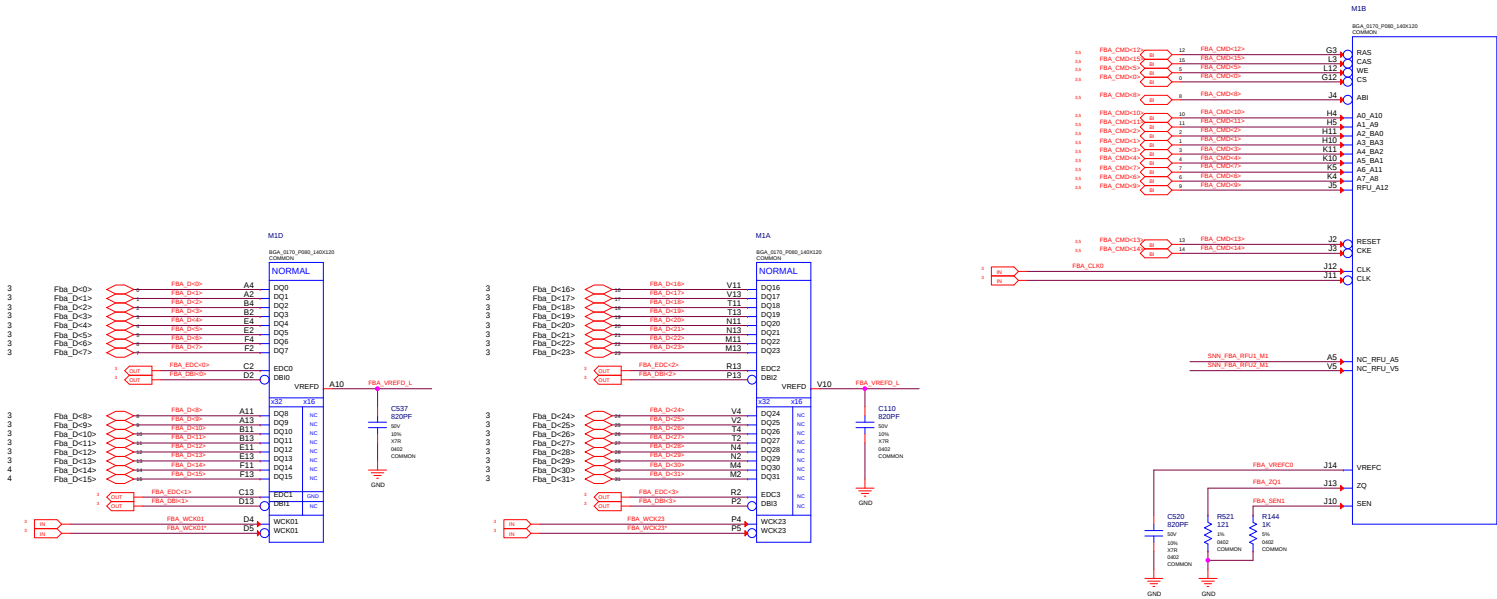


CMD	31.0	31.30
CMD0	C0	
CMD1	A2_BA3	
CMD2	A2_BA0	
CMD3	A4_BA2	
CMD4	A4_BA1	
CMD5	HD7	
CMD6	A7_A8	
CMD7	A6_A9	
CMD8	BD7	
CMD9	A12_A11	
CMD10	A12_A10	
CMD11	AL_A8	
CMD12	BD7	
CMD13	BD7	
CMD14	CAP	
CMD15		
CMD16		C0
CMD17		A2_BA3
CMD18		A2_BA0
CMD19		A4_BA2
CMD20		A4_BA1
CMD21		HD7
CMD22		A7_A8
CMD23		A6_A9
CMD24		BD7
CMD25		A12_A11
CMD26		A12_A10
CMD27		AL_A8
CMD28		BD7
CMD29		BD7
CMD30		CAP
CMD31		

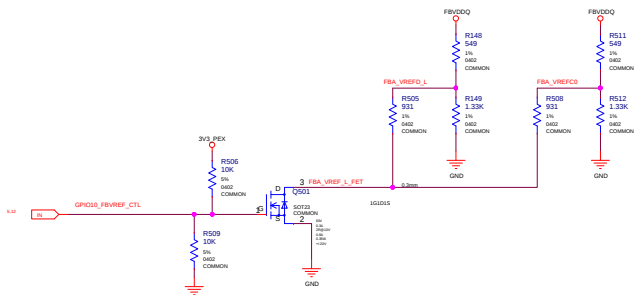
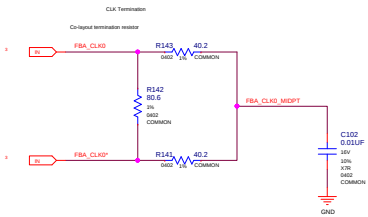


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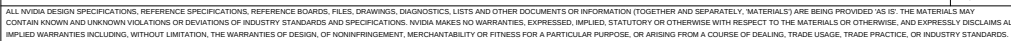
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QND0	CS	
QND1	A2, BA3	
QND2	A2, BA0	
QND3	A1, BA2	
QND4	A5, BA1	
QND5	REF	
QND6	A7, A8	
QND7	AE, A11	
QND8	AB	
QND9	A12, RFU	
QND10	AE, A8	
QND11	A1, A9	
QND12	REF	
QND13	REF	
QND14	REF	
QND15	REF	
QND16	REF	
QND17	REF	
QND18	REF	
QND19	REF	
QND20	REF	
QND21	REF	
QND22	REF	
QND23	REF	
QND24	REF	
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QND28	REF	
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QND30	REF	
QND31	REF	

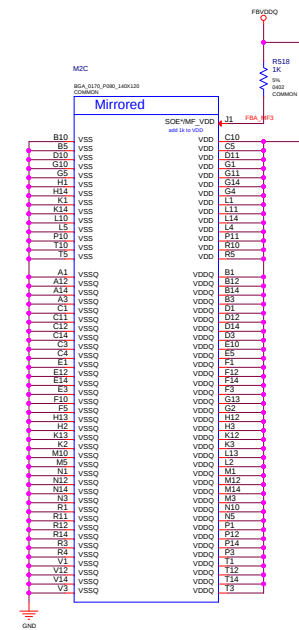
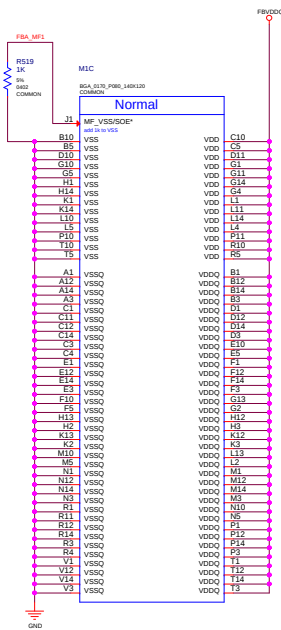


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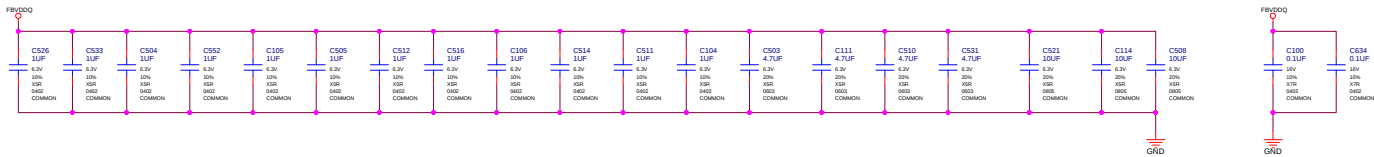
ASSEMBLY	FB Partition A Die 31..0
PAGE DETAIL	

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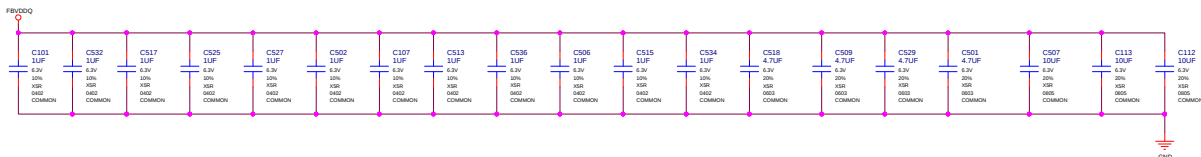




DECOUPLING FOR M1 and M501 DEVICE



DECOUPLING FOR M2 and M502 DEVICE



PLACE 1uF CAPS CLOSEST TO THE MEMORY DEVICES

PLACE LARGER CAPACITORS SLIGHTLY FARTHER AWAY

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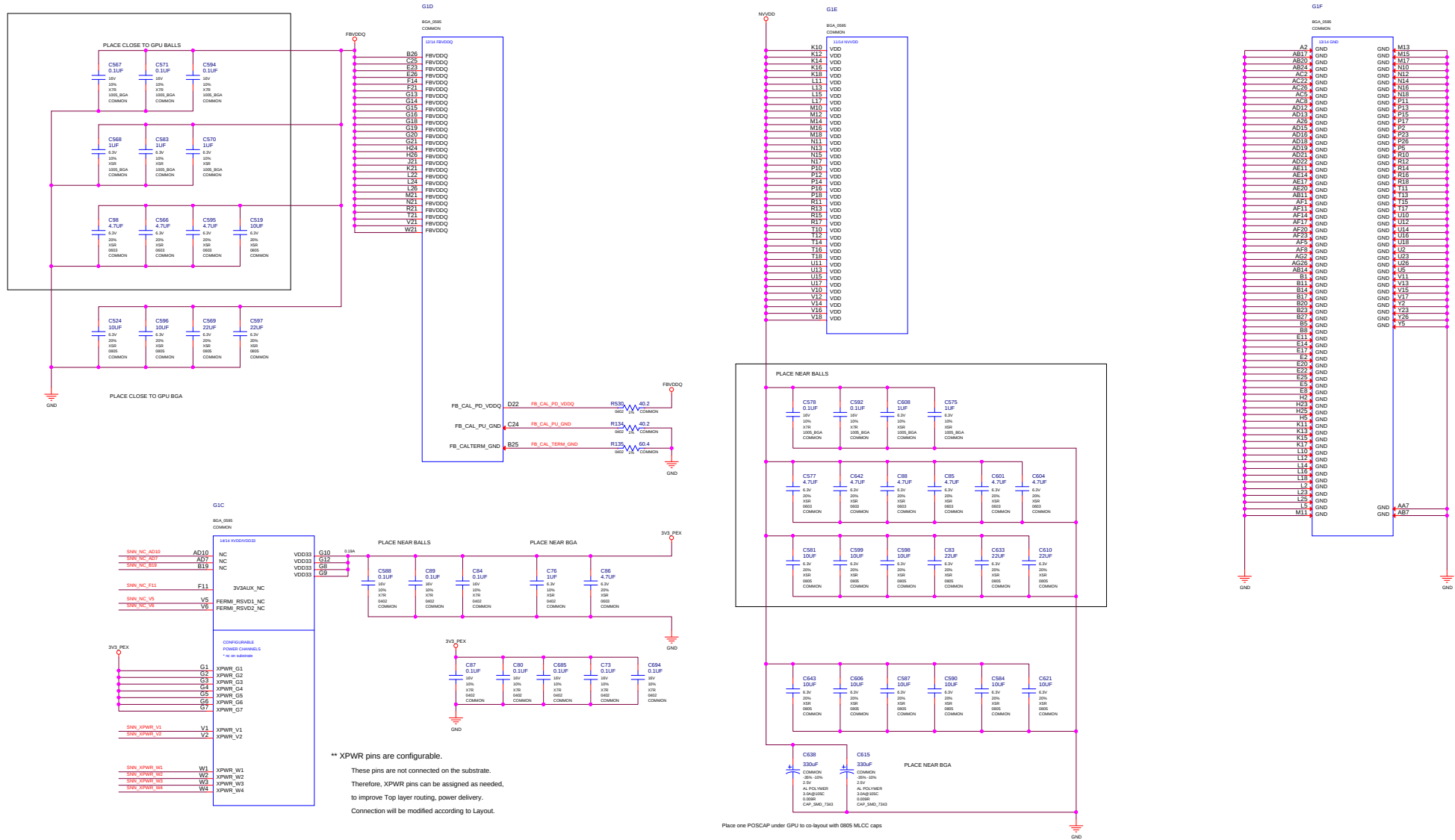
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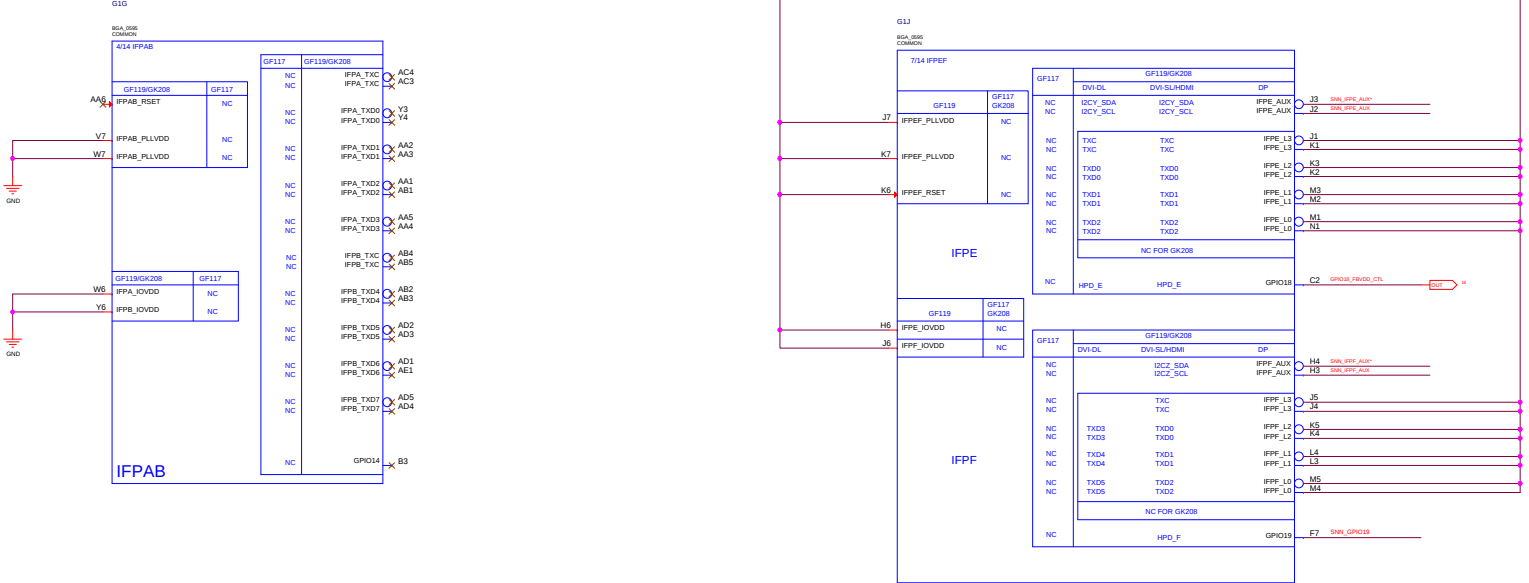


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY
PAGE DETAIL	POWER/DECOUPLING: NVVDD, FBVDDQ, VDD33, GND

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INV_PN PCB REV BOM REV	600-12131-BASE-000 PZ131-A00 A
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PAGE DETAIL	IFPA_B TMD5 DUAL LINK

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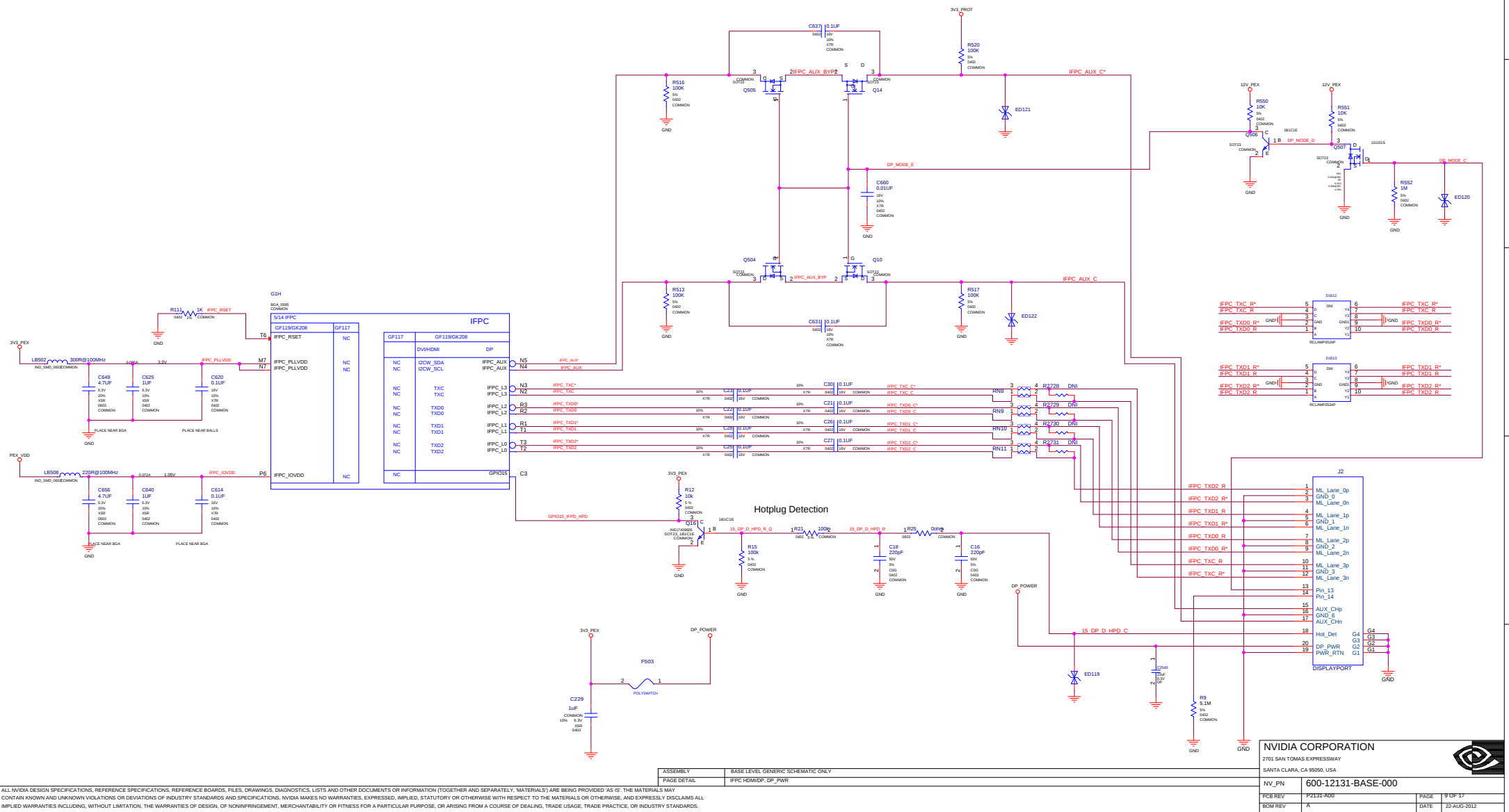
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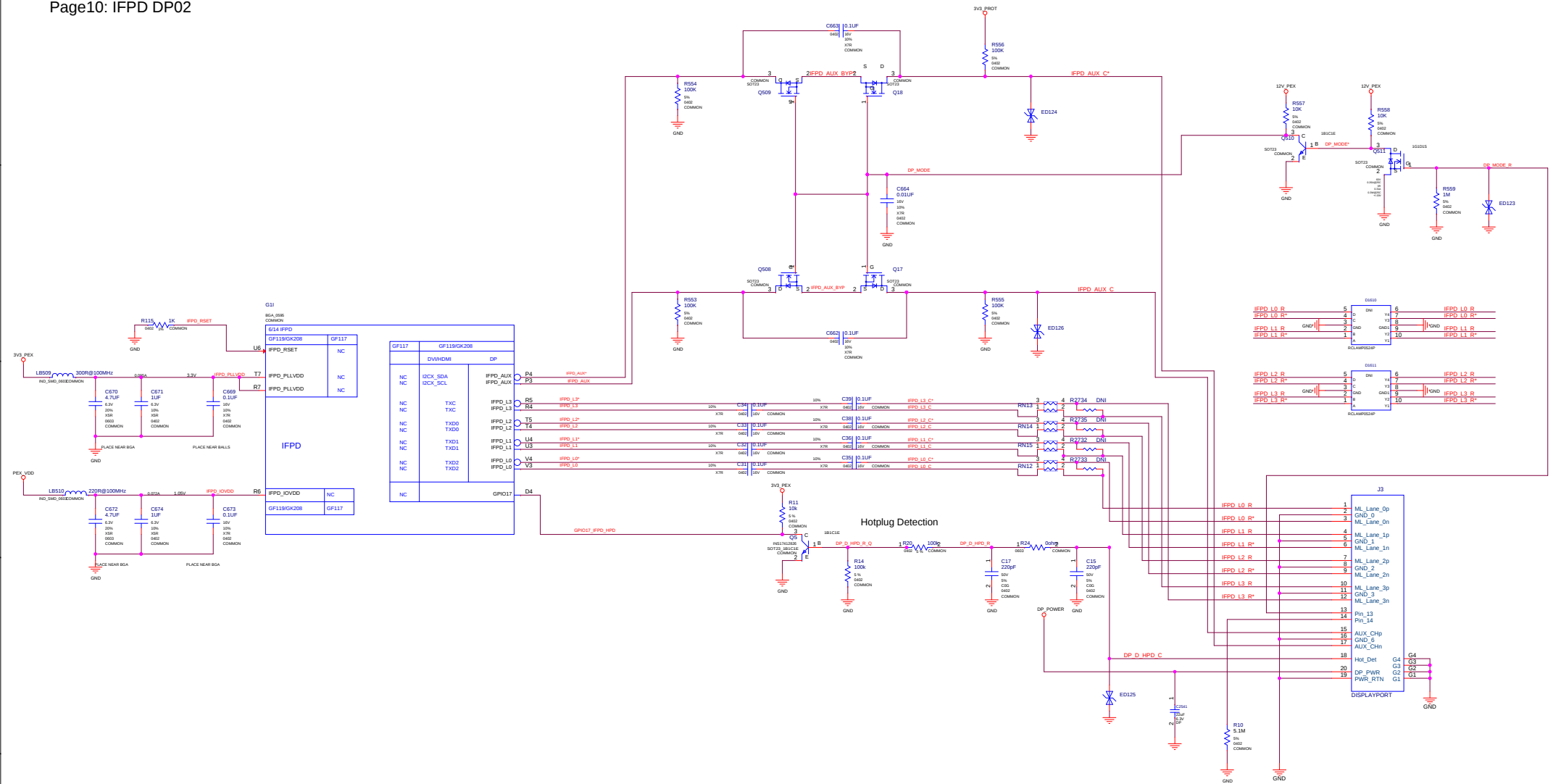
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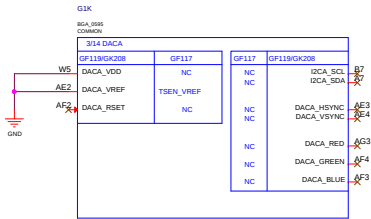
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GK208 GB2-64 package only supports
DACA, so one SKU can only have
one VGA output: North or South.

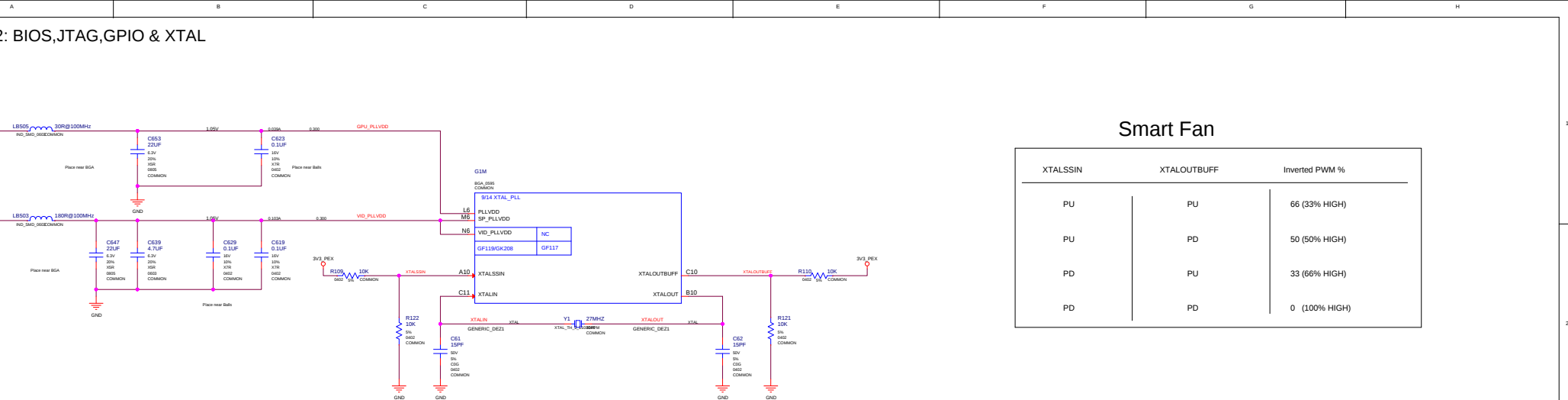
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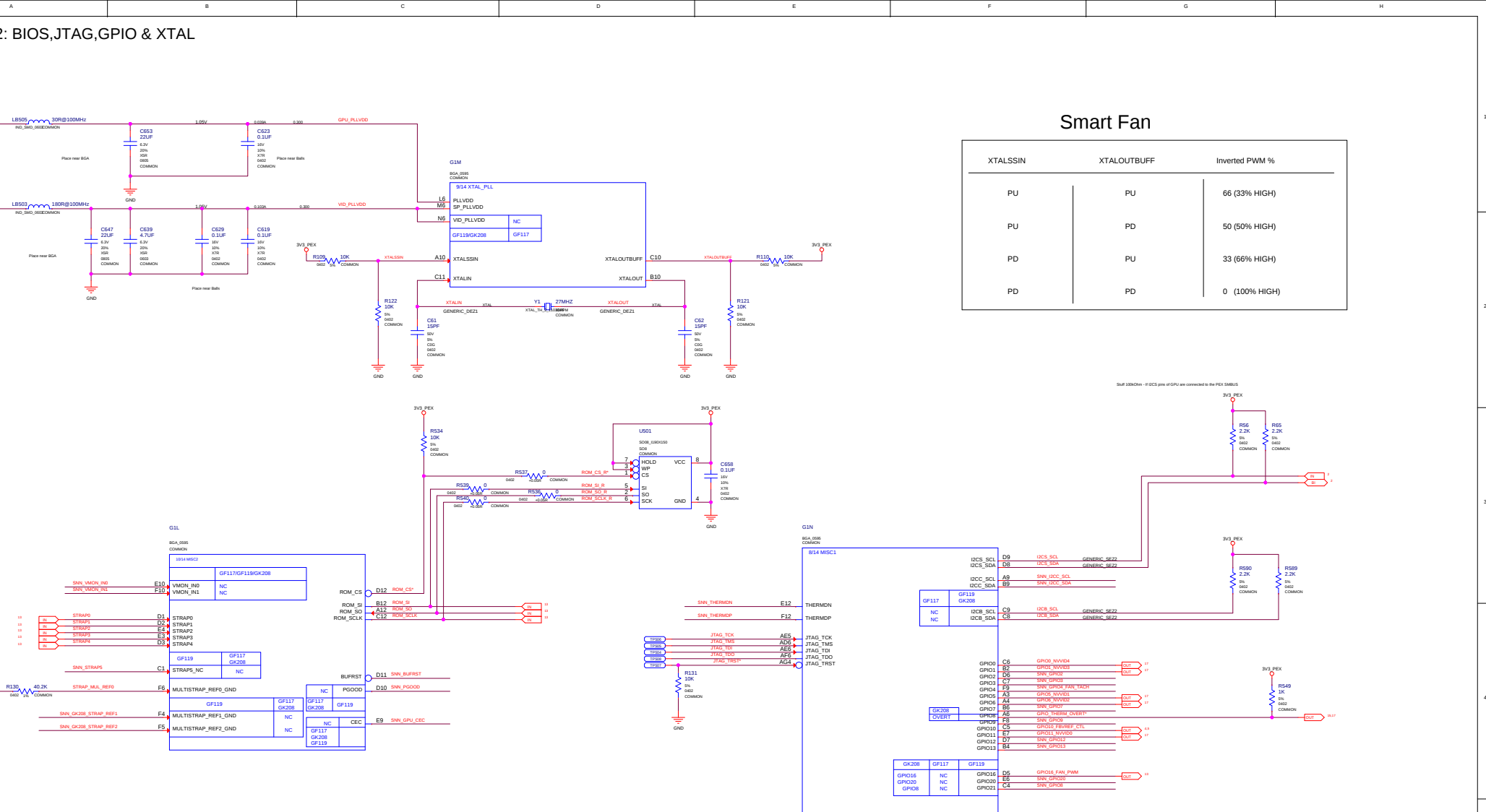
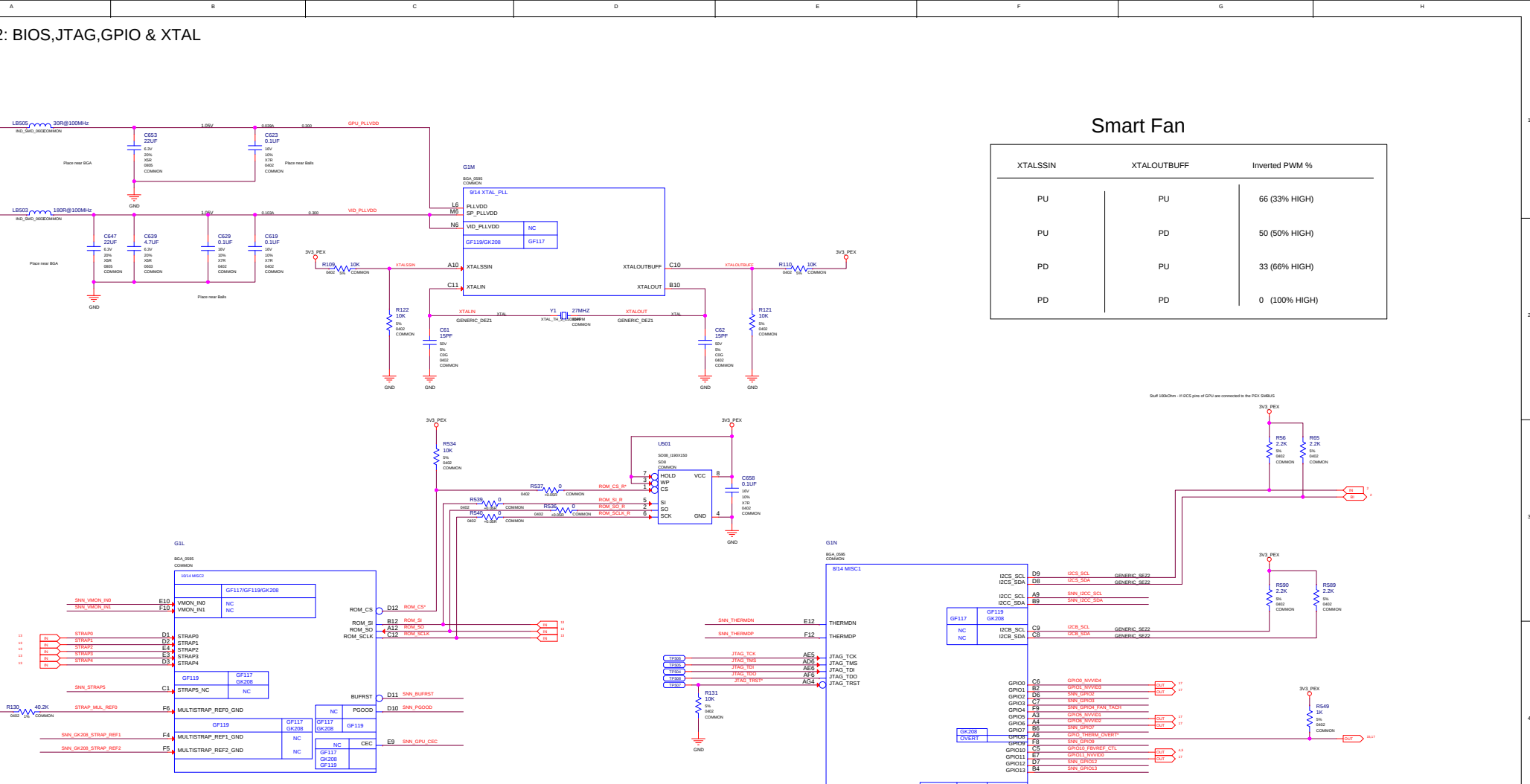
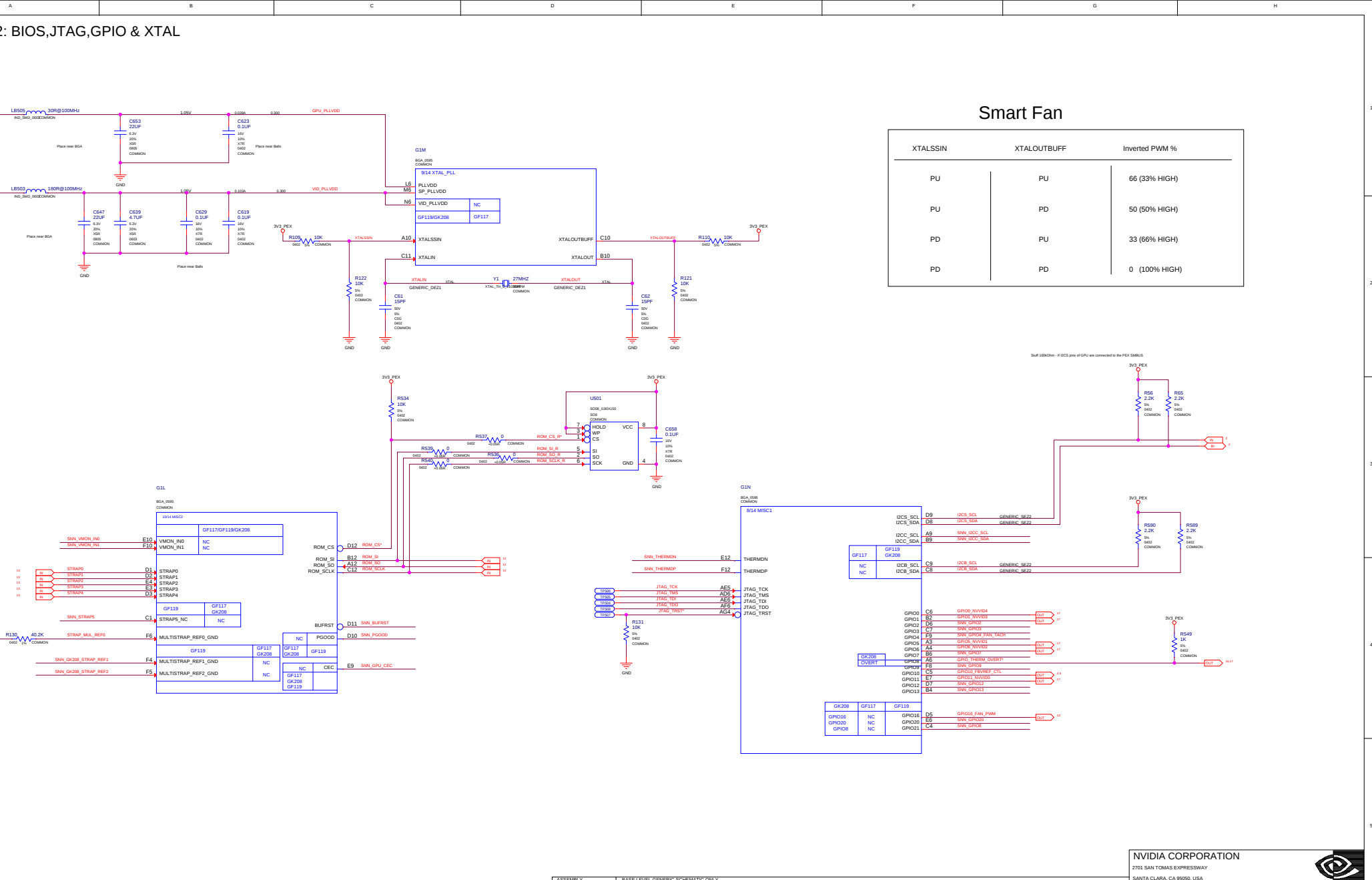


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The image displays the PCB layout for the G1M board, showing the placement of components for the BIOS, JTAG, GPIO, and XTAL. The layout includes two power planes (PU and PD) and a Smart Fan control section. The Smart Fan control section includes a table for the fan's PWM control.

XTALSSIN	XTALOUTBUFF	Inverted PWM %
PU	PU	66 (33% HIGH)
PU	PD	50 (50% HIGH)
PD	PU	33 (66% HIGH)
PD	PD	0 (100% HIGH)

[illegible]

BIOS, JTAG, GPIO & XTAL

Smart Fan

XTALSSIN	XTALOUTBUFF	Inverted PWM %
PU	PU	66 (33% HIGH)
PU	PD	50 (50% HIGH)
PD	PU	33 (66% HIGH)
PD	PD	0 (100% HIGH)

JTAG and GPIO Pins

JTAG_TCK: A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100, A101, A102, A103, A104, A105, A106, A107, A108, A109, A110, A111, A112, A113, A114, A115, A116, A117, A118, A119, A120, A121, A122, A123, A124, A125, A126, A127, A128, A129, A130, A131, A132, A133, A134, A135, A136, A137, A138, A139, A140, A141, A142, A143, A144, A145, A146, A147, A148, A149, A150, A151, A152, A153, A154, A155, A156, A157, A158, A159, A160, A161, A162, A163, A164, A165, A166, A167, A168, A169, A170, A171, A172, A173, A174, A175, A176, A177, A178, A179, A180, A181, A182, A183, A184, A185, A186, A187, A188, A189, A190, A191, A192, A193, A194, A195, A196, A197, A198, A199, A200, A201, A202, A203, A204, A205, A206, A207, A208, A209, A210, A211, A212, A213, A214, A215, A216, A217, A218, A219, A220, A221, A222, A223, A224, A225, A226, A227, A228, A229, A230, A231, A232, A233, A234, A235, A236, A237, A238, A239, A240, A241, A242, A243, A244, A245, A246, A247, A248, A249, A250, A251, A252, A253, A254, A255, A256, A257, A258, A259, A260, A261, A262, A263, A264, A265, A266, A267, A268, A269, A270, A271, A272, A273, A274, A275, A276, A277, A278, A279, A280, A281, A282, A283, A284, A285, A286, A287, A288, A289, A290, A291, A292, A293, A294, A295, A296, A297, A298, A299, A300, A301, A302, A303, A304, A305, A306, A307, A308, A309, A310, A311, A312, A313, A314, A315, A316, A317, A318, A319, A320, A321, A322, A323, A324, A325, A326, A327, A328, A329, A330, A331, A332, A333, A334, A335, A336, A337, A338, A339, A340, A341, A342, A343, A344, A345, A346, A347, A348, A349, A350, A351, A352, A353, A354, A355, A356, A357, A358, A359, A360, A361, A362, A363, A364, A365, A366, A367, A368, A369, A370, A371, A372, A373, A374, A375, A376, A377, A378, A379, A380, A381, A382, A383, A384, A385, A386, A387, A388, A389, A390, A391, A392, A393, A394, A395, A396, A397, A398, A399, A400, A401, A402, A403, A404, A405, A406, A407, A408, A409, A410, A411, A412, A413, A414, A415, A416, A417, A418, A419, A420, A421, A422, A423, A424, A425, A426, A427, A428, A429, A430, A431, A432, A433, A434, A435, A436, A437, A438, A439, A440, A441, A442, A443, A444, A445, A446, A447, A448, A449, A450, A451, A452, A453, A454, A455, A456, A457, A458, A459, A460, A461, A462, A463, A464, A465, A466, A467, A468, A469, A470, A471, A472, A473, A474, A475, A476, A477, A478, A479, A480, A481, A482, A483, A484, A485, A486, A487, A488, A489, A490, A491, A492, A493, A494, A495, A496, A497, A498, A499, A500, A501, A502, A503, A504, A505, A506, A507, A508, A509, A510, A511, A512, A513, A514, A515, A516, A517, A518, A519, A520, A521, A522, A523, A524, A525, A526, A527, A528, A529, A530, A531, A532, A533, A534, A535, A536, A537, A538, A539, A540, A541, A542, A543, A544, A545, A546, A547, A548, A549, A550, A551, A552, A553, A554, A555, A556, A557, A558, A559, A560, A561, A562, A563, A564, A565, A566, A567, A568, A569, A570, A571, A572, A573, A574, A575, A576, A577, A578, A579, A580, A581, A582, A583, A584, A585, A586, A587, A588, A589, A590, A591, A592, A593, A594, A595, A596, A597, A598, A599, A600, A601, A602, A603, A604, A605, A606, A607, A608, A609, A610, A611, A612, A613, A614, A615, A616, A617, A618, A619, A620, A621, A622, A623, A624, A625, A626, A627, A628, A629, A630, A631, A632, A633, A634, A635, A636, A637, A638, A639, A640, A641, A642, A643, A644, A645, A646, A647, A648, A649, A650, A651, A652, A653, A654, A655, A656, A657, A658, A659, A660, A661, A662, A663, A664, A665, A666, A667, A668, A669, A670, A671, A672, A673, A674, A675, A676, A677, A678, A679, A680, A681, A682, A683, A684, A685, A686, A687, A688, A689, A690, A691, A692, A693, A694, A695, A696, A697, A698, A699, A700, A701, A702, A703, A704, A705, A706, A707, A708, A709, A710, A711, A712, A713, A714, A715, A716, A717, A718, A719, A720, A721, A722, A723, A724, A725, A726, A727, A728, A729, A730, A731, A732, A733, A734, A735, A736, A737, A738, A739, A740, A741, A742, A743, A744, A745, A746, A747, A748, A749, A750, A751, A752, A753, A754, A755, A756, A757, A758, A759, A760, A761, A762, A763, A764, A765, A766, A767, A768, A769, A770, A771, A772, A773, A774, A775, A776, A777, A778, A779, A780,

[illegible]

XTALSSIN	XTALOUTBUFF	Inverted PWM %
PU	PU	66 (33% HIGH)
PU	PD	50 (50% HIGH)
PD	PU	33 (66% HIGH)
PD	PD	0 (100% HIGH)

BIOS, JTAG, GPIO & XTAL

Smart Fan

XTALSSIN	XTALOUTBUFF	Inverted PWM %
PU	PU	66 (33% HIGH)
PU	PD	50 (50% HIGH)
PD	PU	33 (66% HIGH)
PD	PD	0 (100% HIGH)

Stall Warning - If CCS pins of GPU are connected to the PEX SMBUS

ASSEMBLY PAGE DETAIL

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY
BIOS, JTAG, GPIO & XTAL	

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REV	DATE	BY	CHKD	APP'D
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A	22-AUG-2012			

BIOS, JTAG, GPIO & XTAL

Smart Fan

XTALSSIN	XTALOUTBUFF	Inverted PWM %
PU	PU	66 (33% HIGH)
PU	PD	50 (50% HIGH)
PD	PU	33 (66% HIGH)
PD	PD	0 (100% HIGH)

ASSEMBLY: BASE LEVEL GENERIC SCHEMATIC ONLY
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BIOS, JTAG, GPIO & XTAL

Smart Fan

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Smart Fan

XTALSSIN	XTALOUTBUFF	Inverted PWM %
PU	PU	66 (33% HIGH)
PU	PD	50 (50% HIGH)
PD	PU	33 (66% HIGH)
PD	PD	0 (100% HIGH)

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ASSEMBLY
 BASE LEVEL GENERIC SCHEMATIC ONLY
 BIOS, JTAG, GPIO & XTAL

PCB REV
 P2131-7000

DATE
 22-AUG-2012

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[illegible][illegible]

BIOS, JTAG, GPIO & XTAL

Smart Fan

ASSEMBLY PAGE DETAIL

BASE LEVEL GENERIC SCHEMATIC ONLY BIOS, JTAG, GPIO & XTAL

NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA

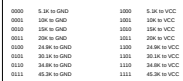
NV_PN 600-12131-BASE-000

PCB REV PZ131-700

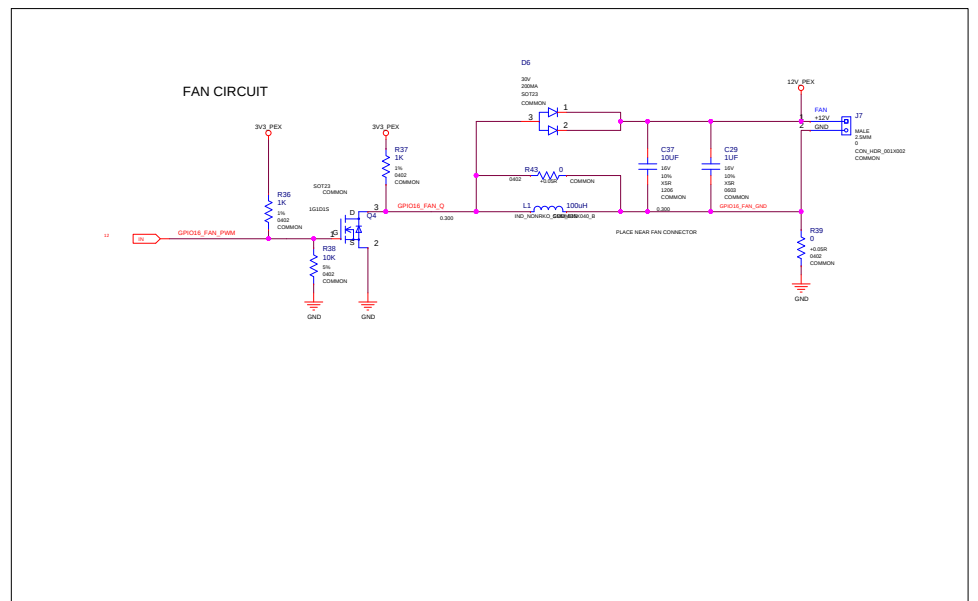
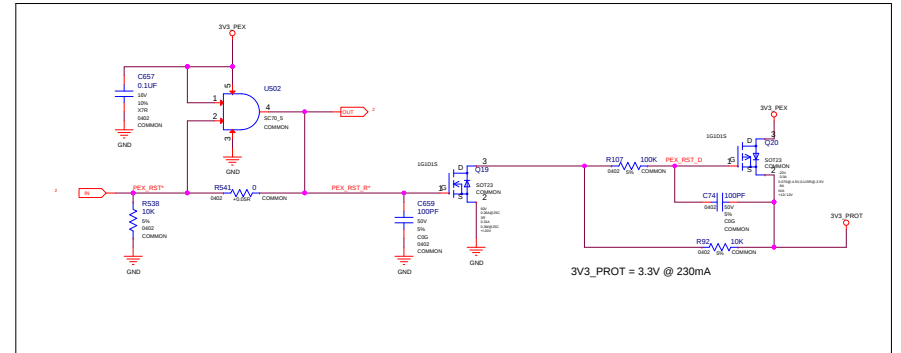
BCM REV A

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DATE 22-AUG-2012



Bit Signal

Values[illegible]

NV_PN	600-12131-BASE-000
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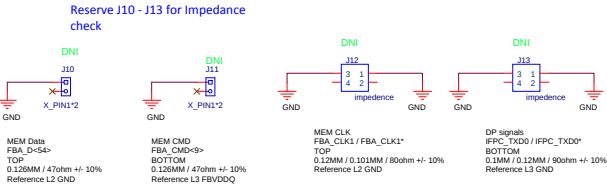
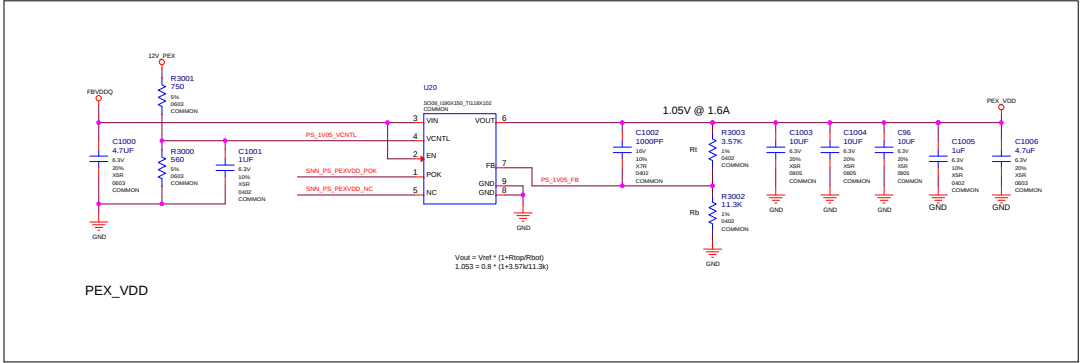
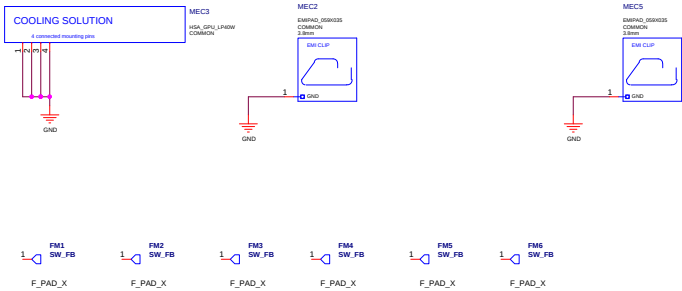
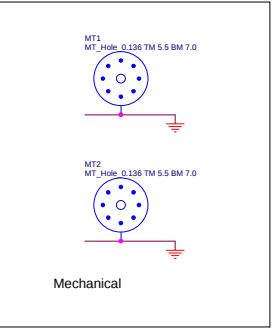
PCB REV	P2131-A00
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P&ID REV	1111-111	PAGE	11 OF 11
BOM REV	A	DATE	22-AUG-2012

[illegible][illegible]

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY
PAGE DETAIL	PCI-E Reset, STRAPS & FAN

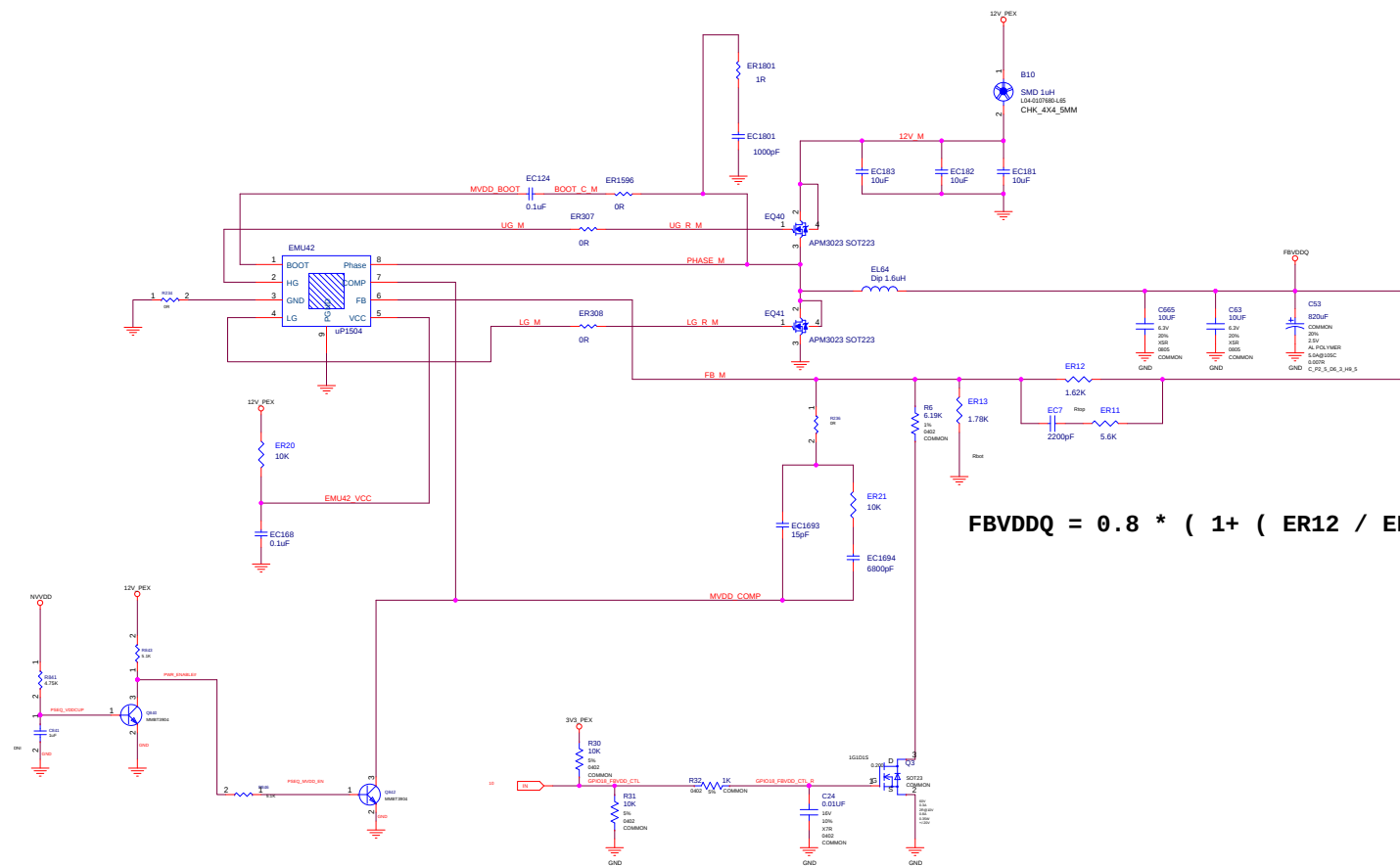
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY
PAGE DETAIL	PS_V0, PEXVDD

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2703 SAN TOMAS EXPRESSWAY	
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NV_PN	600-12131-BASE-000
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$$FBVDDQ = 0.8 * (1 + (ER12 / ER13))$$

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