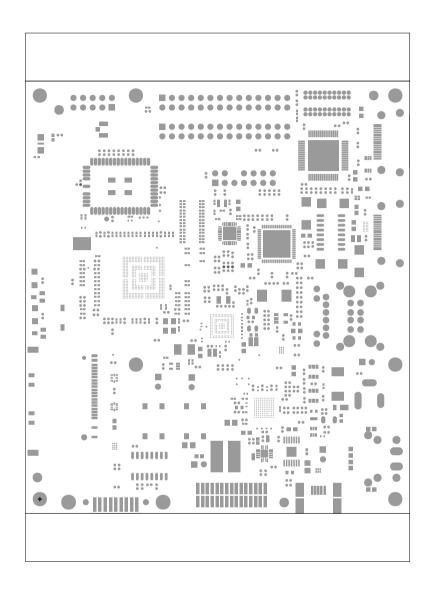


720-2170-004 Rev A
LAYOUT DESIGN BY OC GRAPHICS. INC.
DALLAS. TX 972-931-4100

DATE: 08/31/11

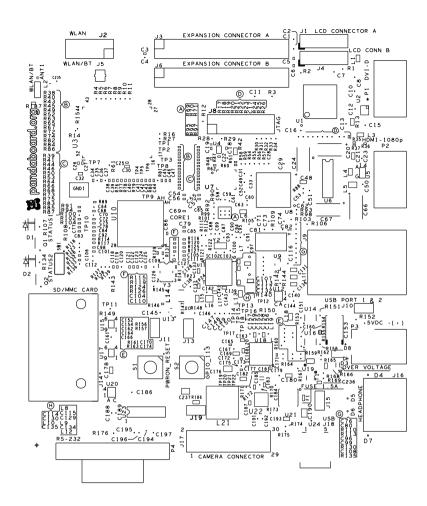
ART FILM - tiismc.021



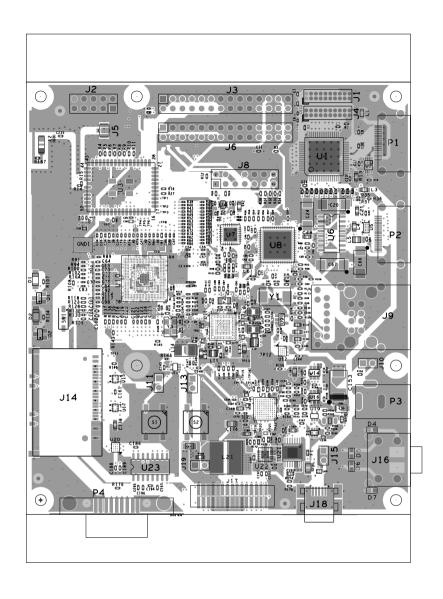
720-2170-004 Rev A LAYOUT DESIGN BY OC GRAPHICS. INC. DALLAS. TX 972-931-4100

SMC OMAP4460 JEVM PANDA

DATE: 08/31/11



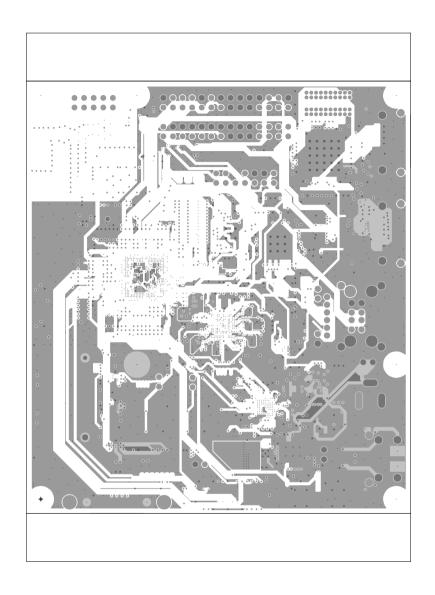
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720-2170-004 Rev A	TSLK	OMAP4460 UEVM PANDA	
LAYOUT DESIGN BY OC GRAPHICS, INC. DALLAS, TX 972-931-4100	DATE: 08/31/11		



LAYER 1 COMPONENT OMAP4460 JEVM PANDA

DATE: 08/31/11

ART FILM - tiilyr2.021



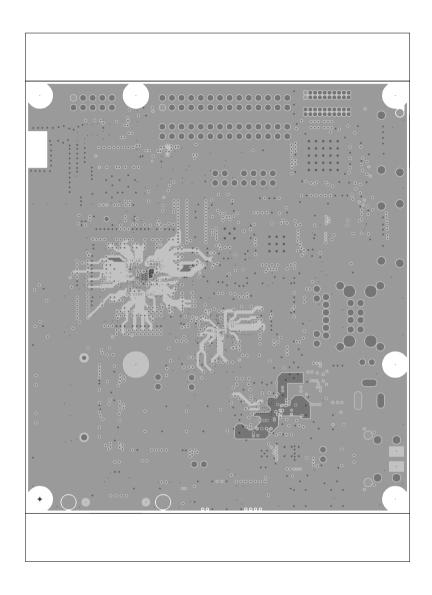
720 - 2170 - 004 Rev A LAYOUT DESIGN BY OC GRAPHICS. INC. DALLAS. TX 972-931-4100

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LAYER 2
SIGNAL OMAP4460 UEVM PANDA

DATE: 08/31/11

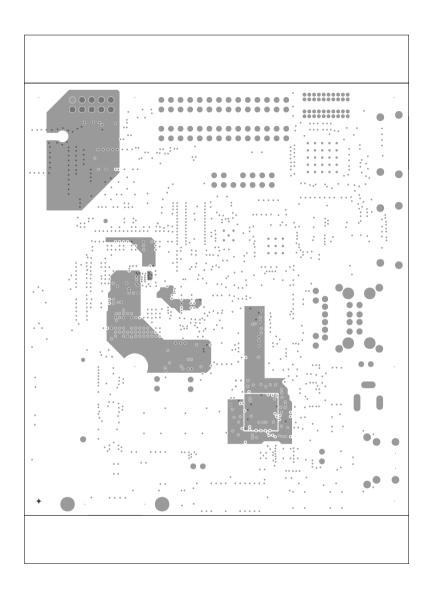
ART FILM - tiilyr2.021



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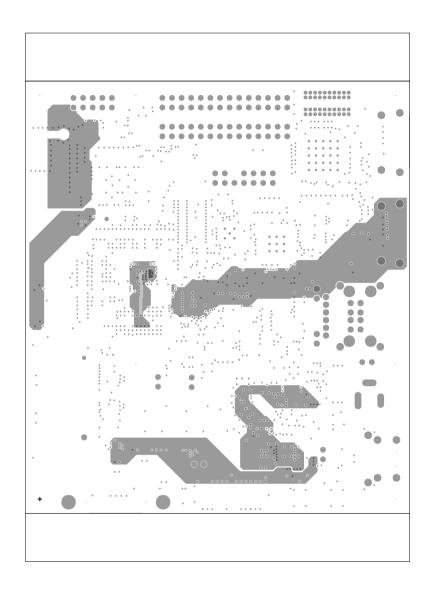
LAYER 3
GROUND OMAP4460 JEVM PANDA

DATE: 08/31/11

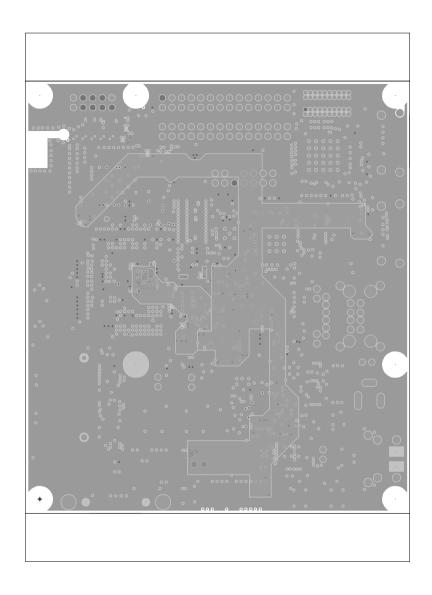


LAYER 4
SIGNAL OMAP4460 JEVM PANDA

DATE: 08/31/11



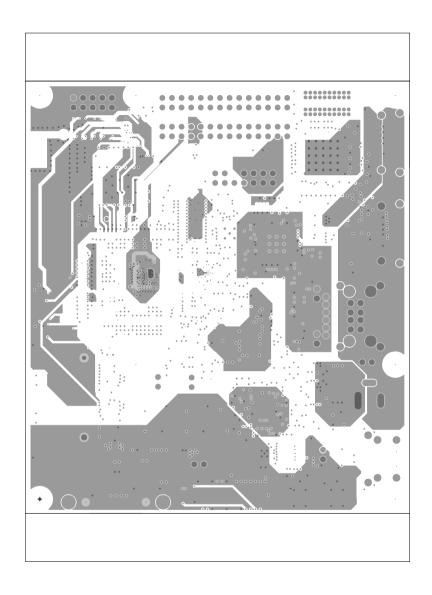
LAYER 5
SIGNAL OMAP4460 JEVM PANDA



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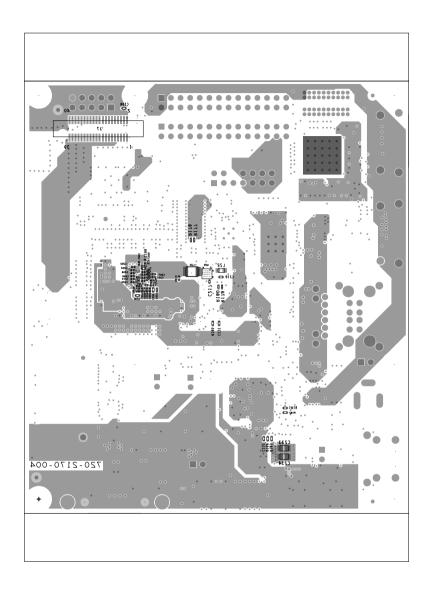
LAYER 6 OMAP4460 JEVM PANDA

DATE: 08/31/11



LAYER 7
SIGNAL OMAP4460 DEVM PANDA

DATE: 08/31/11



EAYER 8
SOLDER OMAP4460 JEVM PANDA

DATE: 08/31/11

ART FILM - tiibslk.021





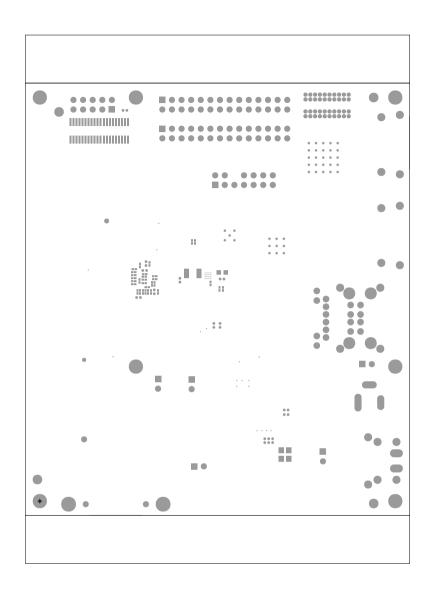
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720-2170-004 Rev A
LAYOUT DESIGN BY OC GRAPHICS, INC.
DALLAS, TX 972-931-4100

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BSLK OMAP4460 JEVM PANDA
DATE: 08/31/11

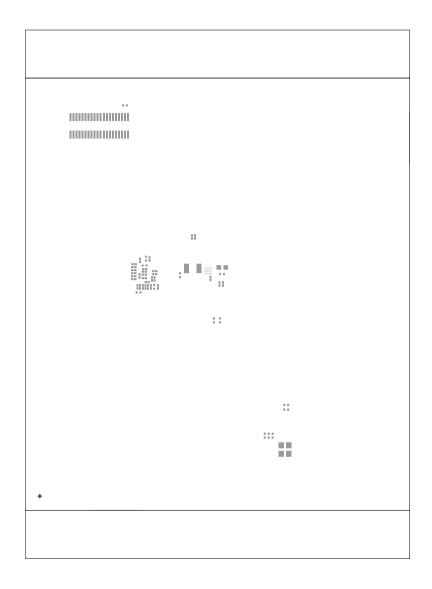


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SMS OMAP4460 UEVM PANDA

DATE: 08/31/11

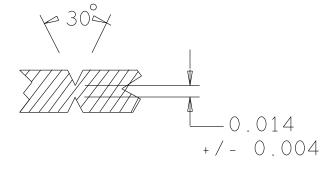
ART FILM - tiisps.021



720-2170-004 Rev A SPS OMAP4460 JEVM PANDA DALLAS. TX 972-931-4100

DATE: 08/31/11

DRILL CHART: TOP to LYR2-SIG							
ALL UNITS ARE IN MILS							
FIGURE	GURE SIZE TOLERANCE PLATED Q						
	4.0	+2.0/-4.0	PLATED	882			
	DRILL CHA	RT: TOP to LY3-0	GND				
ALL UNITS ARE IN MILS							
FIGURE	IGURE SIZE TOLERANCE PLATED QTY						
	4.0	+2.0/-4.0	PLATED	353			
DRILL CHART: LYR2-SIG to LY3-GND							
ALL UNITS ARE IN MILS							
FIGURE	SIZE	TOLERANCE	PLATED	QTY			
	4.0	+2.0/-4.0	PLATED	225			

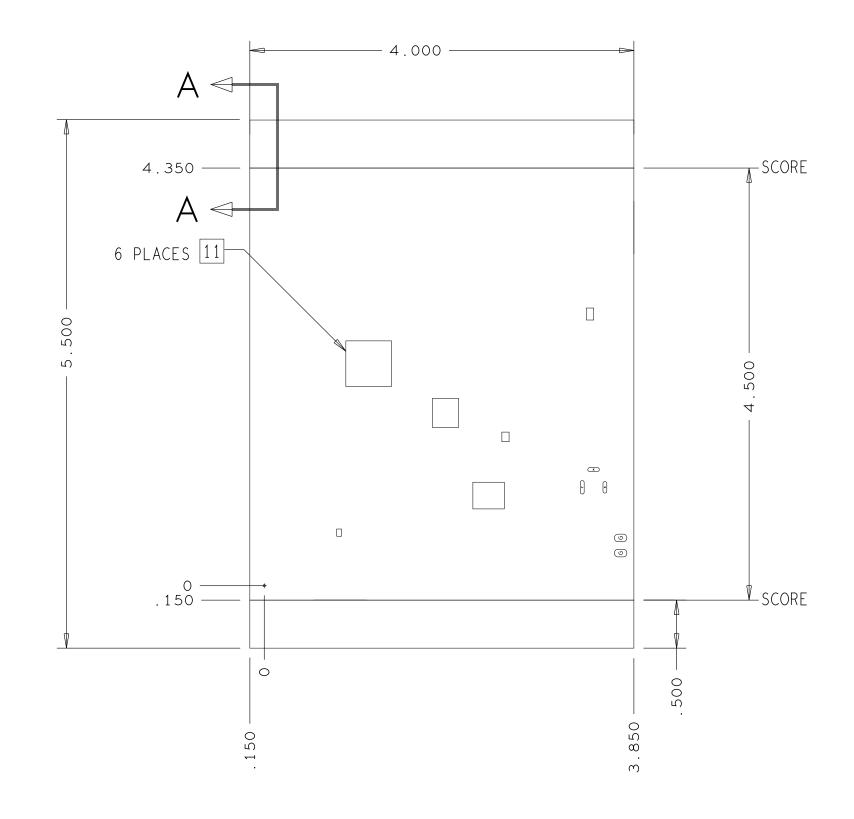


VIEW	Δ	_	Α
SCALE	- . :	NC	NE

	DRILL CHART: LY3-GND to LYR6-PWR								
	ALL UNITS ARE IN MILS								
FIGURE	SIZE	TOLERANCE	PLATED	QTY					
	8.0	+2.0/-8.0	PLATED	128					
	DRILL CHART: LYR6-PWR to LYR7-SIG ALL UNITS ARE IN MILS								
FIGURE	SIZE	TOLERANCE PLATED		QTY					
	4.0	+2.0/-4.0	PLATED	115					

1 0

	DRILL CHART	· IYR7-SIG to B	OTTOM			
ALL UNITS ARE IN MILS						
FIGURE SIZE TOLERANCE PLATED QTY						
	4.0	+2.0/-4.0	PLATED	168		



	DRILL CHART: TOP to BOTTOM								
ALL UNITS ARE IN MILS									
FIGURE	SIZE	TOLERANCE	PLATED	QTY					
	8.0	+2.0/-8.0	PLATED	1117					
	10.0	+ 3 . 0 / - 10 . 0	PLATED	17					
	12.0	+3.0/-3.0	PLATED	39					
	25.0	+3.0/-3.0	PLATED	1					
	28.0	+3.0/-3.0	PLATED	40					
	40.0	+3.0/-3.0	PLATED	107					
	51.0	+3.0/-3.0	PLATED	8					
	60.0	+3.0/-3.0	PLATED	6					
	62.0	+3.0/-3.0	PLATED	4					
	90.0	+3.0/-3.0	PLATED	4					
	120.0	+3.0/-3.0	PLATED	2					
	43.3	+2.0/-2.0	NON-PLATED	1					
	59.0	+2.0/-2.0	NON-PLATED	2					
	63.0	+2.0/-2.0	NON-PLATED	1					
	144.0	+2.0/-2.0	NON-PLATED	7					
<b>(X)</b>	120.0×40.0	+3.0/-3.0	PLATED	1					
(4)	120.0x40.0	+3.0/-3.0	PLATED	1					
0	140.0×40.0	+3.0/-3.0	PLATED	1					
6	130.0x79.0	+2.0/-2.0	NON-PLATED	2					

TSLK	
SMC	
LAYER 1	3
LAYER 2	3
LAYER 3	<u></u>
LAYER 4	<u></u>
LAYER 5	3
LAYER 6	
LAYER 7	3
LAYER 8	3
SMS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
BSLK	<u></u>

12. BOARD LAYOUT DESIGNED WITH TI BY QC GRAPHICS, INC. DALLAS, TEXAS

11 REGISTRATION OF SOLDERMASK SHALL BE +/- .002.

- 10. IMPEDENCE CONTROL TO XX OHMS. SEE TABLE WITH IMPEDANCE REQUIREMENTS DETAIL B
- 9. SURFACE FINISH SHALL BE IMMERSION SILVER
- 8. FINISHED BOARD SHALL BE FREE OF BURRS ON EDGES.
- 7. DRC'S MUST BE RUN ON THE GERBERS BEFORE BUILDING BOARDS UNLESS PRIOR APPROVAL IS GIVEN IN WRITING.
- 6. VENDOR TO CLIP SILKSCREEN FROM EXPOSED COPPER/PADS.
- 5. PLATED THRU HOLE SIZE TOLERANCES SHALL BE +/- .003 INCH. UNPLATED THRU HOLE SIZE TOLERANCES SHALL BE +/- .002 INCH.
- 4. SOLDERMASK ON BOTH SIDES OF THE BOARD SHALL BE S.M.O.B.C., LPI, COLOR BLACK.
- 3. MINIMUM TRACE AND SPACE SHALL BE .003 OF AN INCH.
- 2. LAYER STACKUP AND COPPER WEIGHTS ARE PER 720-2170-002 STACKUP.PDF. AVERAGE COPPER ON THE WALL OF THE PLATED THRU HOLE SHALL BE PER IPC CLASS 2.
- 1 TOTAL BOARD THICKNESS SHALL BE .062 +/- 10% INCHES. ALL MATERIAL SHALL BE NEMA GRADE FR-4 OR EQUIVALENT. (Tg>=170 DEG. C) BOARD FABIRCATION SHALL BE PER IPC CLASS 2.

NOTES: UNLESS OTHERWISE SPECIFIED

## DETAIL B

IMPEDANCE REQUIREMENTS

	Single Ended   Single Ended			Differential						
Layers	(Mils)	Impedance (Ohms)	Trace Width	Impedance (Ohms)	Trace Width (Mils)	Trace Pitch center-center (Mils)	Impedance ( Ohms )	Trace Width (Mils)	Trace Pitch center-center (Mils)	Impedance (Ohms)
L1_PS	12	50 (REF.PLN.3)			6.50	10.5	9 ( REF.PLN.3)	5.50	10.50	100 (REF.PLN.3)
L2_SIG	4.50	50 (REF.PLN.3)			3.75	8	9 ( (REF.PLN.3)	3	8	100(REF.PLN.3)
L3_GND								5.75	10	100 (REF.PLN.0
L4_SIG	9	50 (REF.PLN.3)			6.50	11.5	9 ( REF.PLN.3)	5	10	100(REF.PLN.3)
L5_SIG	9	50 (REF.PLN.6)								
L6_PWR										
L7_SIG	4.50.	50 (REF.PLN.6)								
L8_SS	12	50 (REF.PLN.6)						5.50	10.50	100 (REF.PLN.6)

DRILL LAYER 1-8

LAYER SCHEDULE SCALE: NONE

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APPROVED 🙎 pandaboard.org CHECKED DRAFTING S.Thomson FABRICATION DRAWING, DATE 08/31/11 ENGR TOLERANCES UNLESS OTHERWISE SPECIFIED DESIGN ENGR OMAP4460 uEVM PANDA PROJECT ENGR X.XX ± 0.01 X.XXX ± 0.005 ANGLES ± 1/2° ENGR MGR SCALE NONE 720-2170-004 SHEET 1 OF 1 NEXT ASSEMBLY DO NOT SCALE DRAWING