

		REVISIONS	
ZONE	REV	DESCRIPTION	DATE APPROVED
	1.0	INITIAL RELEASE	02/09/12 BP

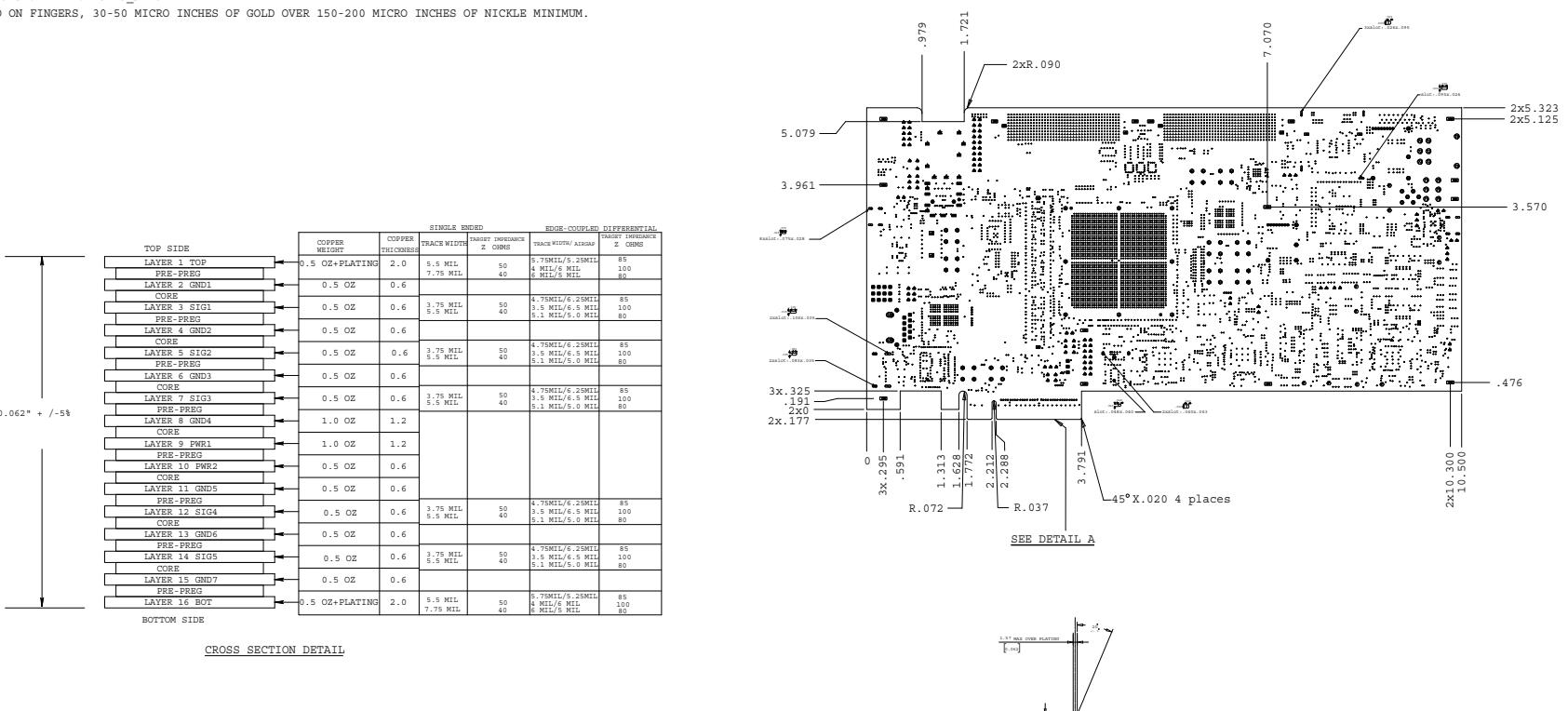
NOTES: (UNLESS OTHERWISE SPECIFIED)
THIS FAB SHOULD BE "ROHS COMPLIANT".

- FABRICATE TO IPC-A-600, CURRENT REVISION
- BOARD SHALL MEET THE INSPECTION CRITERIA OF
A- ACCEPTABILITY AS PER IPC-A-600 (LATEST REVISION) CLASS II
B- QUALIFICATION AND PERFORMANCE AS PER IPC-6012 (LATEST REVISION) CLASS II.
- MATERIAL NICKEL 4000-12EP SOLDER (COMPLIANT MATERIAL) OR EQUIVALENT. GLASS
TRANSITION TEMPERATURE MUST MEET OR EXCEED THE TEMPERATURE EXHIBITED
WITH HIGH TEMPERATURE PROCESSES ASSOCIATED WITH LEAD FREE ASSEMBLY.
- APPLY SOLDER MASK OVER BARE COPPER (SMOBC) IAW
IPC-SM-840, BOTH SIDES, USING LPI, COLOR GREEN.
- LPI SOLDER MASK TAIYO PSR4000 (RoHS COMPLIANT MATERIAL) OR EQUIVALENT WILL BE USED ON BOTH
SIDES.
- SOLDER MASK REQUIREMENTS FOR VIAS:
a) ALL VIAS SHOWN IN DATA WITH SOLDER MASK RELIEF OF 4 MILS OVER VIA DRILL SIZE, SHALL HAVE
SOLDER MASK ENCROACHED (DRILL PLUS 4 MILS).
b) ALL TEST POINT VIAS SHOWN IN DATA AS ONE TO ONE SOLDER MASK RELIEF ON TEST SIDE, SHALL BE
FULLY EXPOSED AND ACCESSIBLE ON FINISHED BOARD.
- SOLDER MASK REGISTRATION TO BE WITHIN DIAMETRICAL TRUE POSITION OF +/- 0.002" WITH APPLICABLE
HOLE TOLERANCE.
- FINISH: GOLD IMMERSION.
- SILKSCREEN USING WHITE HAVEN PC421 (NON-CONDUCTIVE OR EQUIVALENT RoHS COMPLIANT MATERIAL)
BOTH SIDES DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON SOLDER LANDS IS
NOT ACCEPTABLE.
- VENDOR LOGO AND DATE CODE TO BE MARKED SOLDER SIDE IN SILKSCREEN. MAXIMUM HEIGHT 0.12 INCHES.
- 100% ELECTRICAL TEST REQUIRED FOR CONTINUITY. BOARD SHALL HAVE A
JUMPER OF 0.04" UNLESS OTHERWISE SPECIFIED. JUMPER SHALL BE MARKED SOLDER SIDE IN SILKSCREEN.
- REMOVE ALL UNUSED PADS FROM INTERNAL LAYERS.
- 274X GERBER ODB+ USED FOR FAB MUST BE VERIFIED AGAINST THE PROVIDED IPC156 NETLIST. COPPER
SLIVERS THAT ARE LESS THAN 0.003" IN WIDTH BETWEEN ANTI-PAD TO PLANE EDGE, ANTI-PAD TO SPLIT
PLANE AND ANTI-PAD TO ANTI-PAD MUST BE REMOVED FROM THE MANUFACTURING ARTWORK. A NETLIST
CHECKER MAY BE REQUIRED. IT IS NO VIOLATION AFTER THE REMOVAL OF SLIVERS. ANY REQUIREMENT
FOR SLIVER REMOVAL ABOVE OR EQUAL TO THE 0.003" COPPER WIDTH MUST BE ADDRESSED AND APPROVED
IN WRITING BY SUPPLIER.
- VIAS ARE SUPPOSED TO BE DIRECTLY CONNECTED TO RESPECTIVE PLANE.
- FOU IMPEDANCE CONTROL DETAILS REFER TO THE FILE "5542_VC707_STACK-UP.PDF" PROVIDED WITH GERBER DATA.
- INTENTIONAL SHORT:

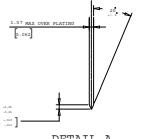
PLEASE REPORT ANY SHORT OTHER THAN THESE:
GND SHOTED TO DGND1_9248, DGND2_9248, DGND3_9248.

DGND1_9248 SHOTED TO AGND1_9248
DGND2_9248 SHOTED TO AGND2_9248
DGND3_9248 SHOTED TO AGND3_9248

17. HARD GOLD ON FINGERS, 30-50 MICRO INCHES OF GOLD OVER 150-200 MICRO INCHES OF NICKLE MINIMUM.



CROSS SECTION DETAIL



DETAIL A

DRILL CHART: TOP to BOTTOM ALL UNITS ARE IN MILS				
FIGURE	FHS	TOLERANCE	PLATED	ADDITIONAL
.	10.0	+0.0/-10.0	PLATED	6083
.	12.0	+0.0/-12.0	PLATED	62
.	28.0	+3.0/-3.0	PLATED	16
.	33.0	+3.0/-3.0	PLATED	1
▪	35.0	+3.0/-3.0	PLATED	25
▲	40.0	+3.0/-3.0	PLATED	99
▲	41.0	+3.0/-3.0	PLATED	11 PRESS PIT
●	48.0	+3.0/-3.0	PLATED	6
●	50.0	+3.0/-3.0	PLATED	10
●	55.0	+3.0/-3.0	PLATED	8
●	63.0	+3.0/-3.0	PLATED	42
○	71.0	+3.0/-3.0	PLATED	6
○	73.0	+3.0/-3.0	PLATED	8
■	106.0	+3.0/-3.0	PLATED	4
■	110.0	+3.0/-3.0	PLATED	3
■	125.0	+3.0/-3.0	PLATED	8
■	33.0	+1.0/-1.0	NON-PLATED	2
■	37.0	+2.0/-2.0	NON-PLATED	9
■	40.0	+2.0/-2.0	NON-PLATED	2
■	43.0	+3.0/-3.0	NON-PLATED	1
■	44.0	+1.0/-0.0	NON-PLATED	1
■	50.0	+2.0/-2.0	NON-PLATED	4
■	54.0	+2.0/-2.0	NON-PLATED	2
■	61.0	+3.0/-3.0	NON-PLATED	2
■	63.0	+2.0/-2.0	NON-PLATED	1
■	67.0	+4.0/-4.0	NON-PLATED	8
■	128.0	+2.0/-2.0	NON-PLATED	2
■	48.0x40.0	+3.0/-3.0	PLATED	1
■	63.0x40.0	+3.0/-3.0	PLATED	2
■	75.0x28.0	+2.0/-2.0	PLATED	8
■	83.0x35.0	+2.0/-2.0	PLATED	2
■	95.0x24.0	+3.0/-3.0	PLATED	4
■	106.0x35.0	+2.0/-2.0	PLATED	2

TOTAL HOLES: 6445

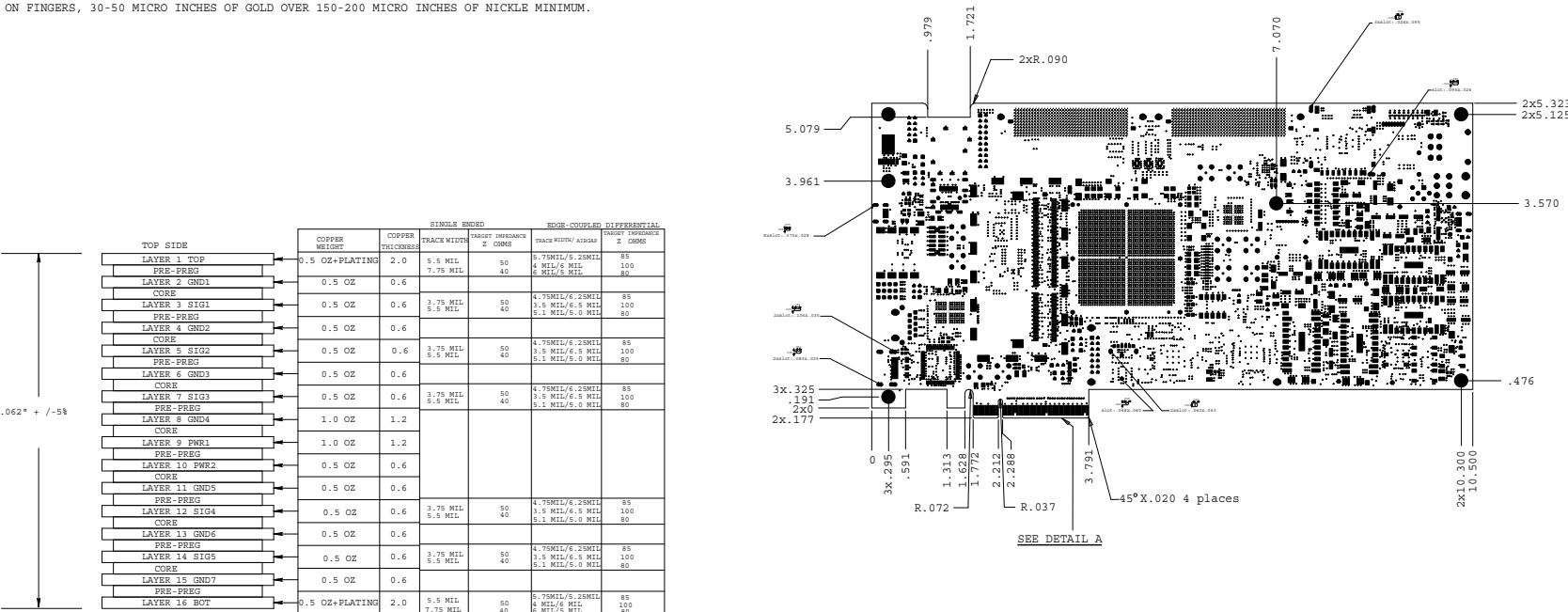
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES ON:		APPROVAL	DATE	CUSTOMER:	
LINEAR DIMENSIONS ANGLES				XILINX, INC	
.XX	= + .030	XX XX	= + 0 .030		
.XX	= -.030	XX XX	= + 1 .030		
.X	= + .100	XX	= + 5.0°		
DRAWING SYMBOLS & TOLERANCE PER ANSI Y14.5M-1994		CHECKED:		PROJECT NAME:	
		Rashid Mehmood	02-09-12	HW-VC707	
		WHIZZ SYSTEMS INC. 3240 SCOTT BLVD SANTA CLARA, CA 95054 TEL: 408-980-0400	Brian Forssle	02-09-12	SIZE: D FAB DWG. NO.
			Brian Forssle	02-09-12	REV. 1.0
		DO NOT SCALE DRAWING	WHIZZ JOG NO.	5542	SCALE: 1:1
					SHEET 1 OF 1

		REVISIONS	
ZONE	REV	DESCRIPTION	DATE APPROVED
	1.0	INITIAL RELEASE	02/09/12 BP

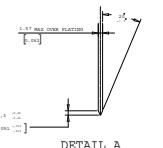
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- PLEASE REPORT ANY SHORT OTHER THAN THESE:
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DGND1_9248 SHOTED TO AGND1_9248
DGND2_9248 SHOTED TO AGND2_9248
DGND3_9248 SHOTED TO AGND3_9248

17. HARD GOLD ON FINGERS, 30-50 MICRO INCHES OF GOLD OVER 150-200 MICRO INCHES OF NICKLE MINIMUM.



CROSS SECTION DETAIL



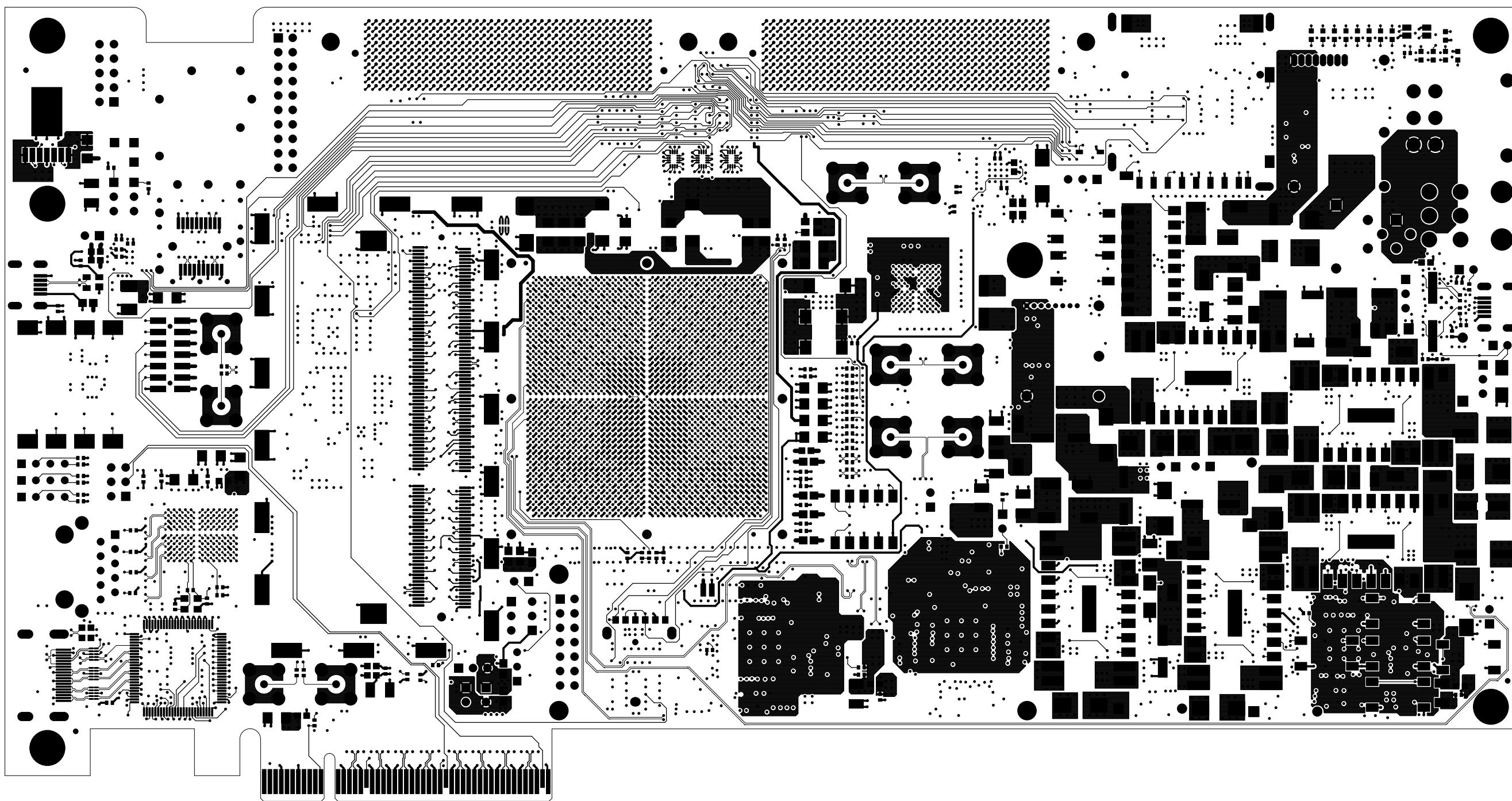
DETAIL A

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.	33.0	+3.0/-3.0	PLATED	1
▪	35.0	+3.0/-3.0	PLATED	25
▲	40.0	+3.0/-3.0	PLATED	99
▲	41.0	+3.0/-3.0	PLATED	11
●	48.0	+3.0/-3.0	PLATED	6
●	50.0	+3.0/-3.0	PLATED	10
●	55.0	+3.0/-3.0	PLATED	8
●	63.0	+3.0/-3.0	PLATED	42
○	71.0	+3.0/-3.0	PLATED	6
○	73.0	+3.0/-3.0	PLATED	8
■	106.0	+3.0/-3.0	PLATED	4
■	110.0	+3.0/-3.0	PLATED	3
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TOTAL HOLES: 6445

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LINEAR DIMENSIONS	ANGLES			XILINX, INC	
.XX = ± .030	XX XX = ± 0 .030				
.XX = ± .030	XX XX = ± 1 .030				
.X = ± .100	XX = ± 5.0°				
		CHECKED:		PROJECT NAME:	
		Rashid Mehmood	02-09-12	HW-VC707	
		ENGR:			
		Brian Forssie	02-09-12		
		APPROVAL:			
		Brian Forssie	02-09-12	SIZE: D	FAB DWG. NO.
					REV. 1.0
		WHIZZ JOG NO.	5542	SCALE: 1:1	1280586
		DO NOT SCALE DRAWING			SHEET 1 OF 1

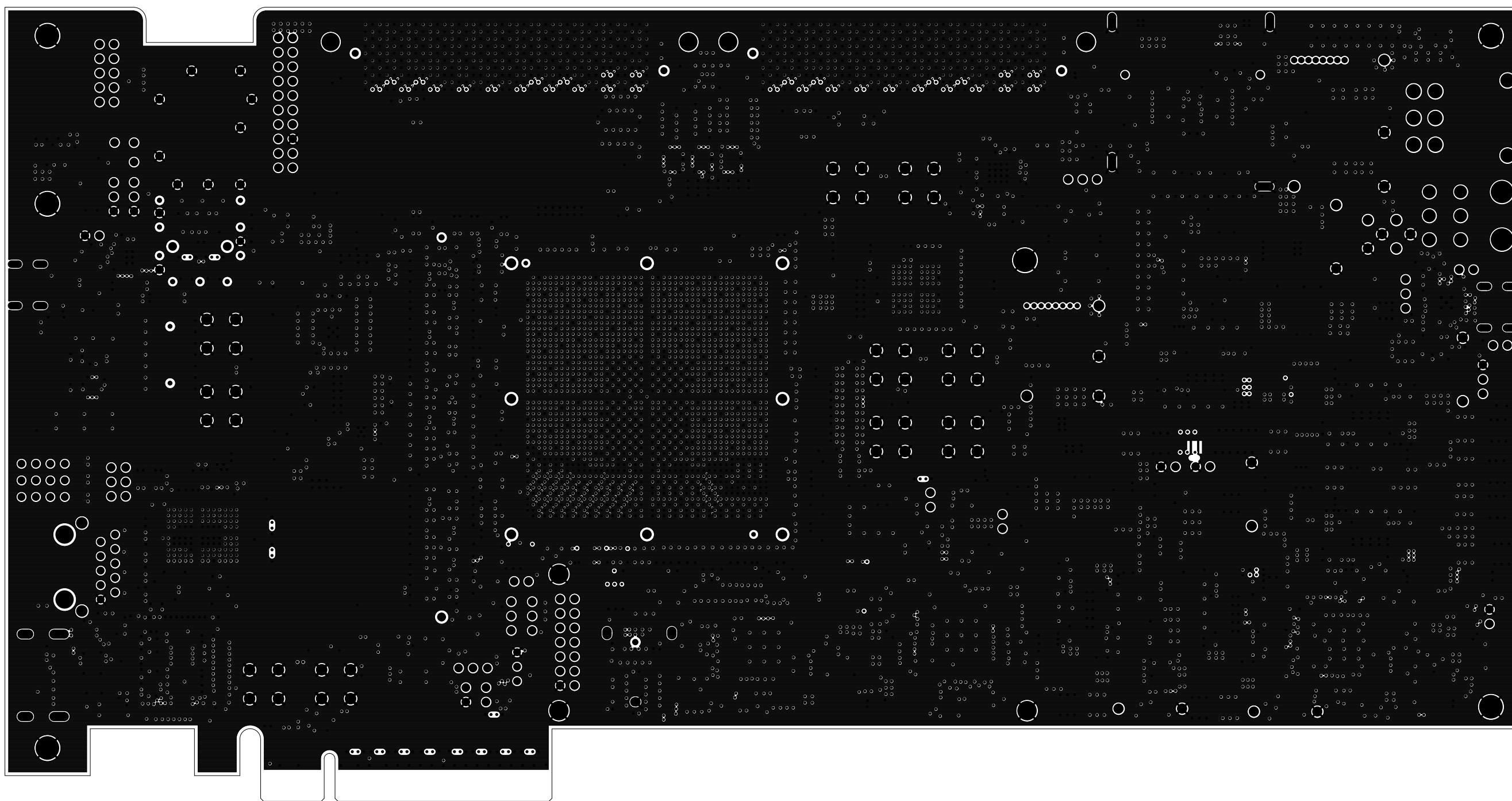




DESIGNED BY:
WHIZZ SYSTEMS INC.
3140 ALFRED STREET,
SANTA CLARA, CA 95054
www.whizzsystems.com
TEL:408-980-0400 FAX:408-980-1555

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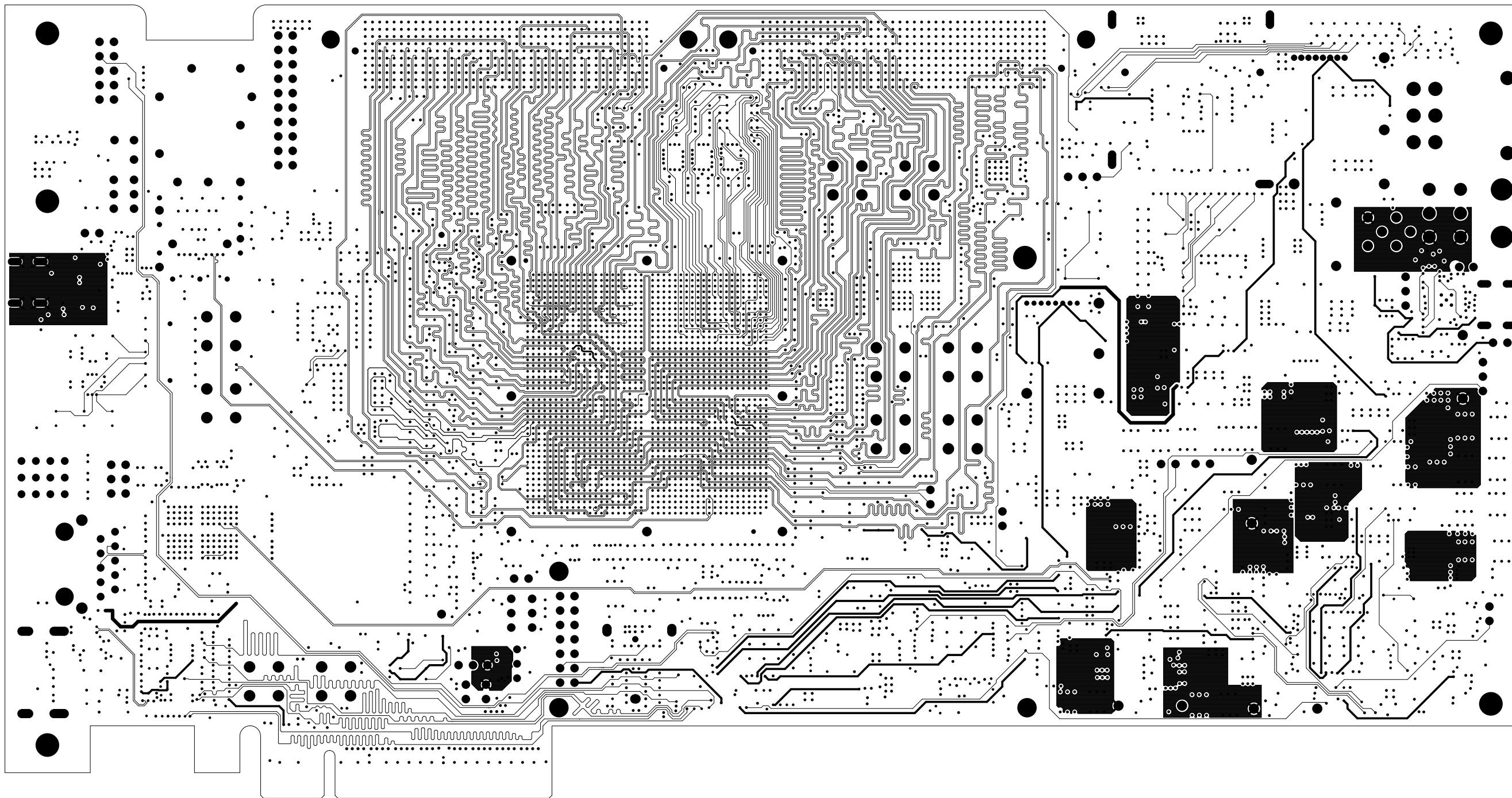
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Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	REV. 1.0 1280586
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



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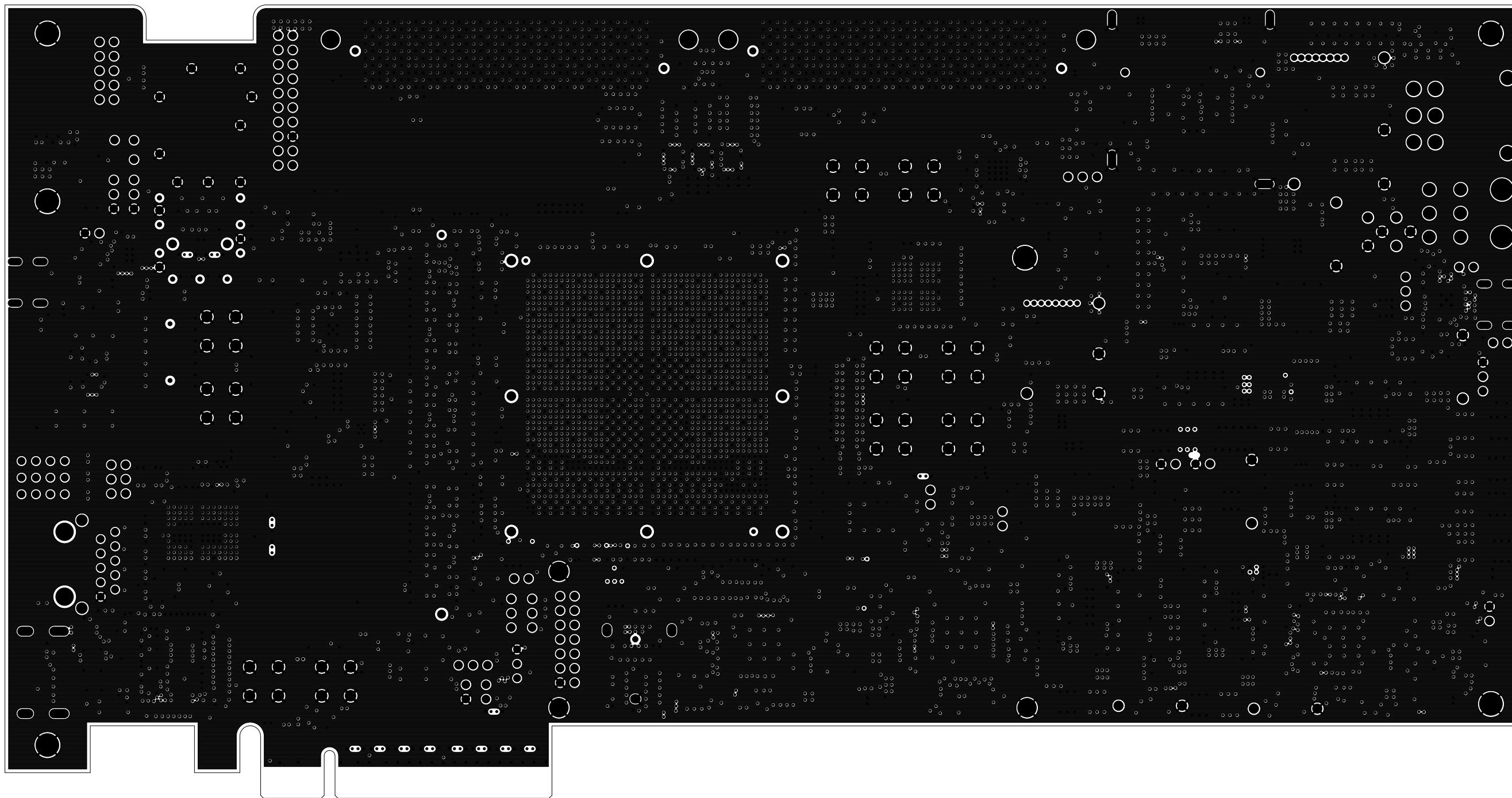
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Design Engineer: BRIAN FORSSE	Project Name: HW-VC707		
Whizz Job Number: 5542	Date: 02.09.2012	Project Number: 1280586	REV. 1.0
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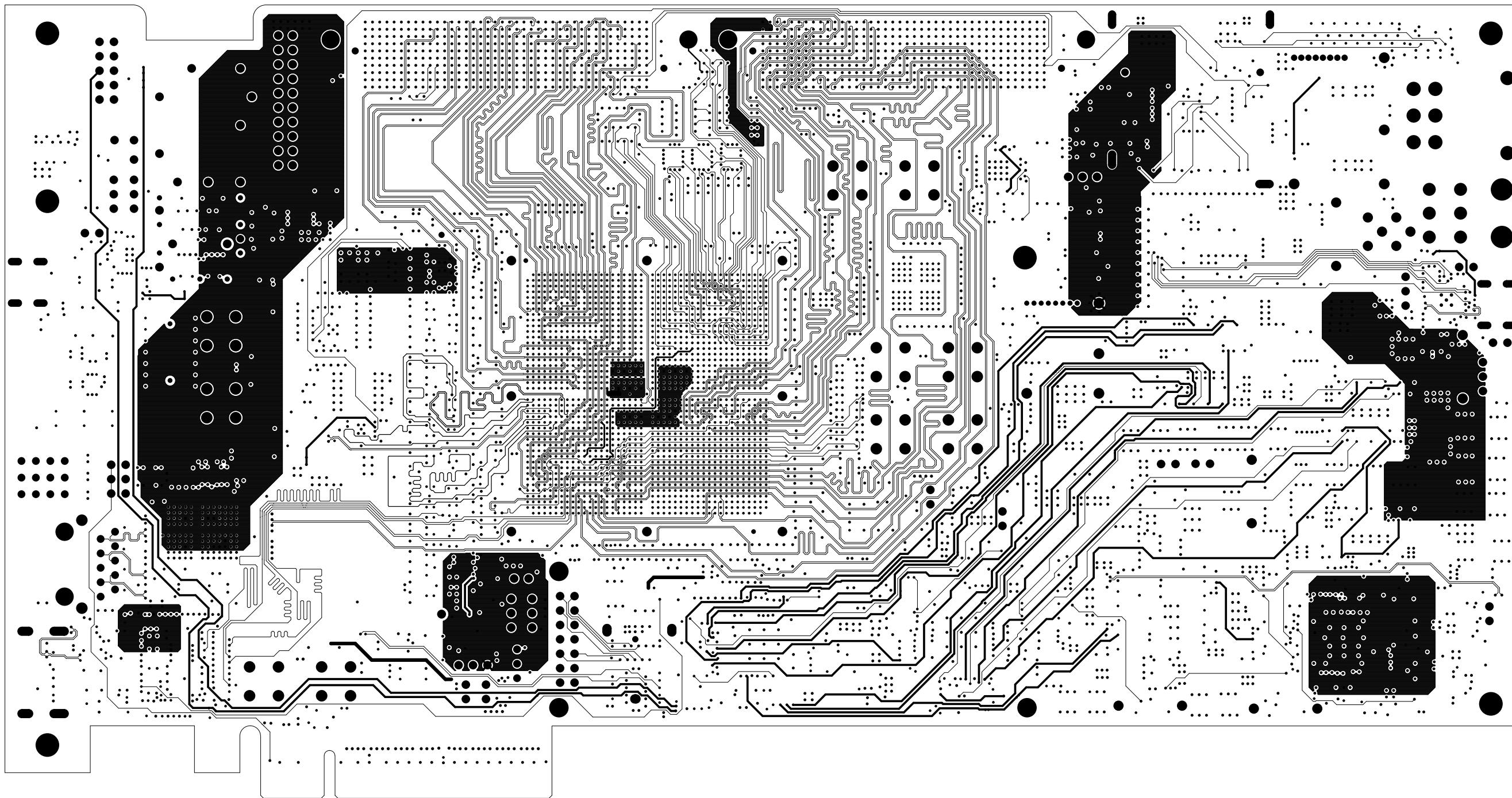
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Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	1280586 REV. 1.0
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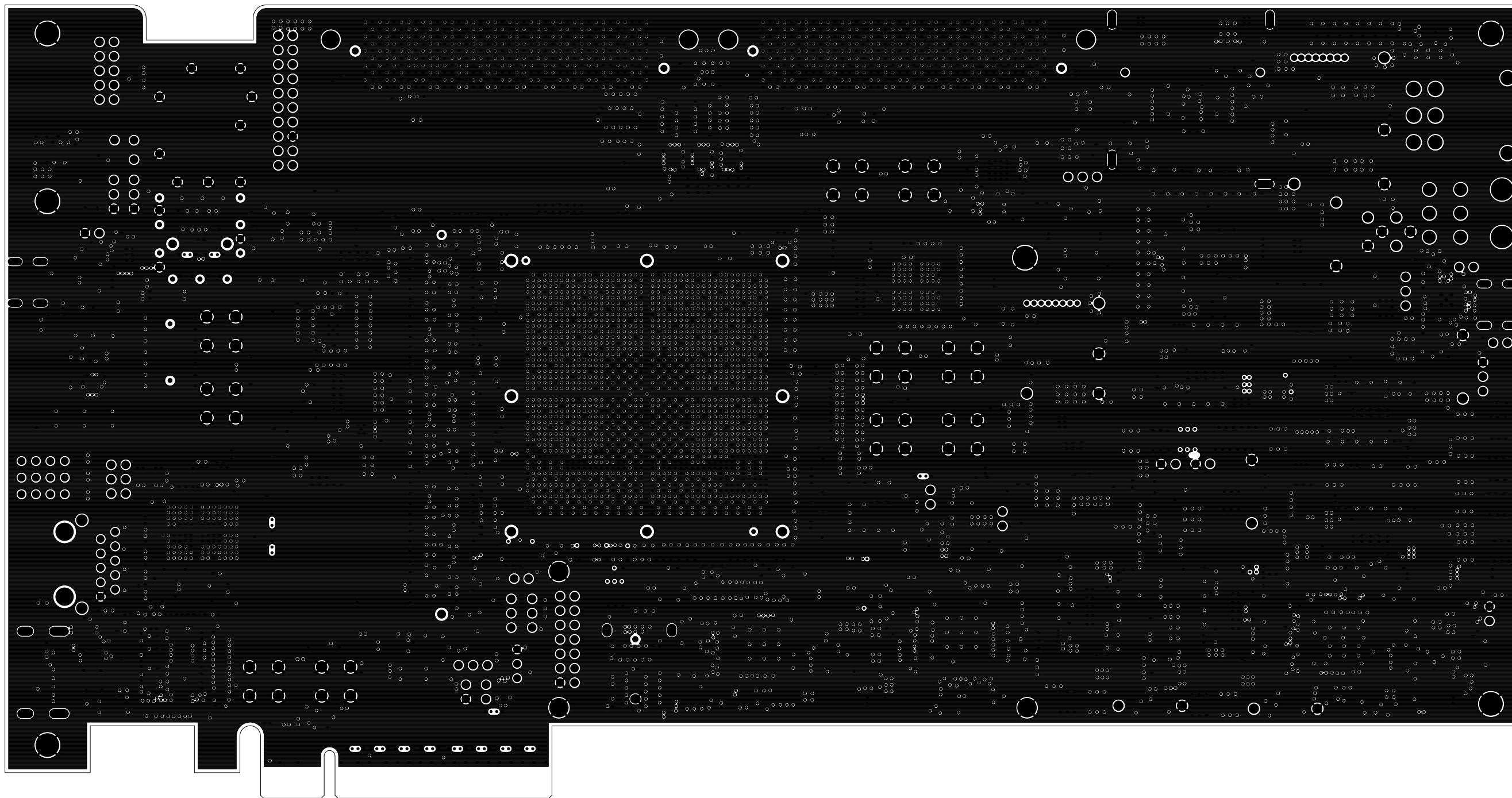
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Design Engineer: BRIAN FORSSE	Project Name: HW-VC707	
Whizz Job Number: 5542	Date: 02.09.2012	Project Number: 1280586 REV. 1.0
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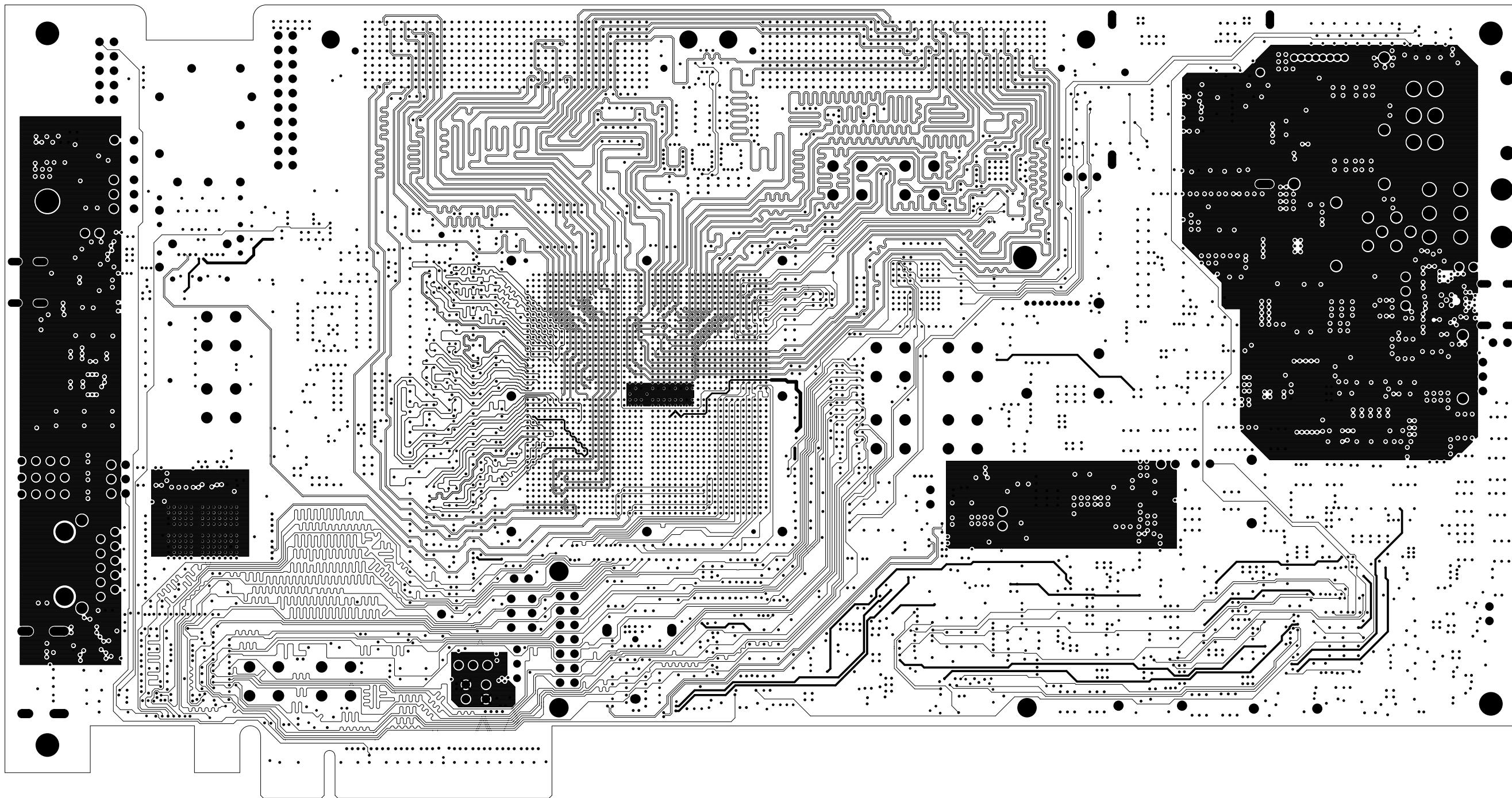
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Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	REV. 1.0 1280586
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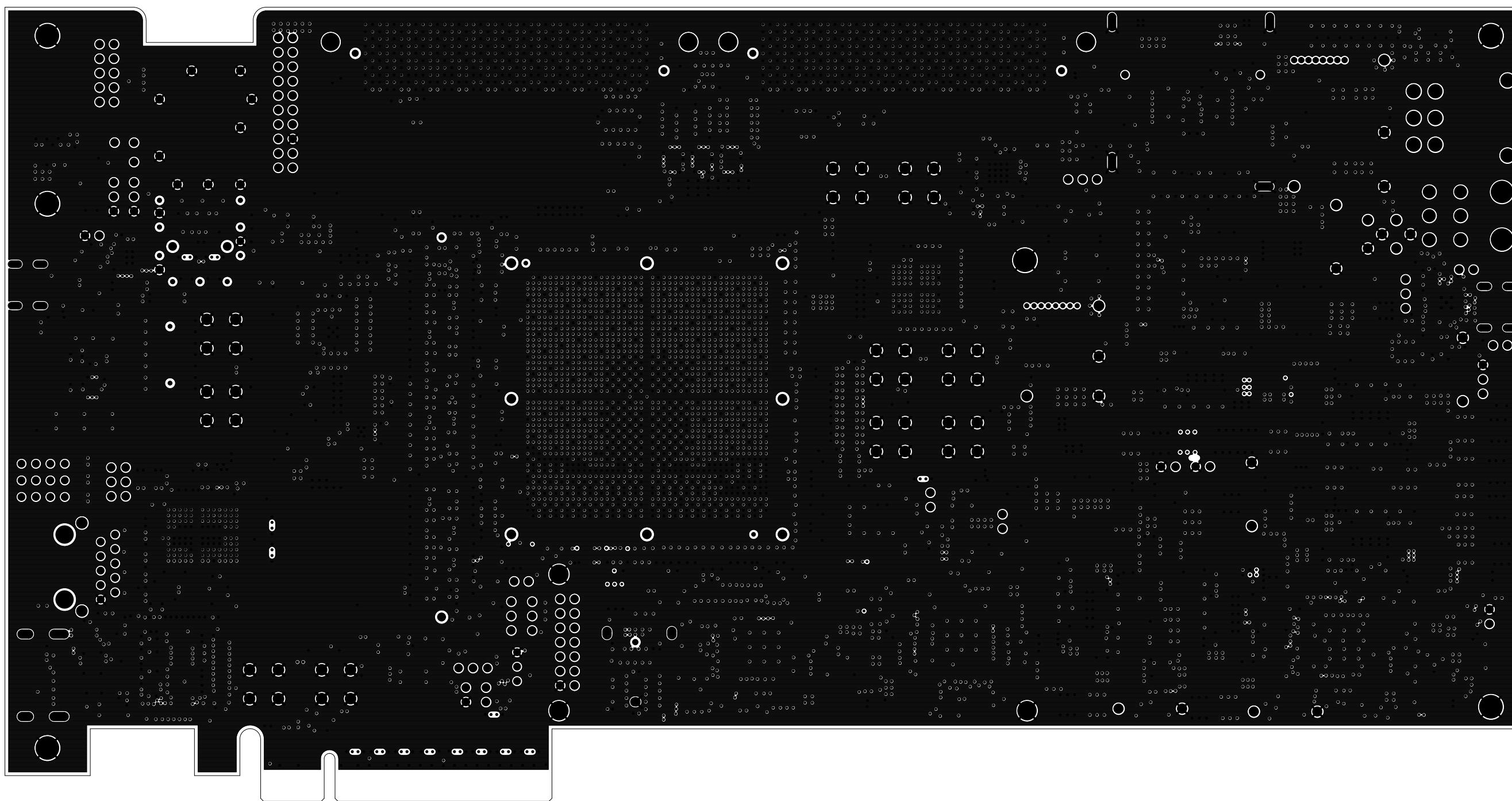
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Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	REV. 1.0 1280586
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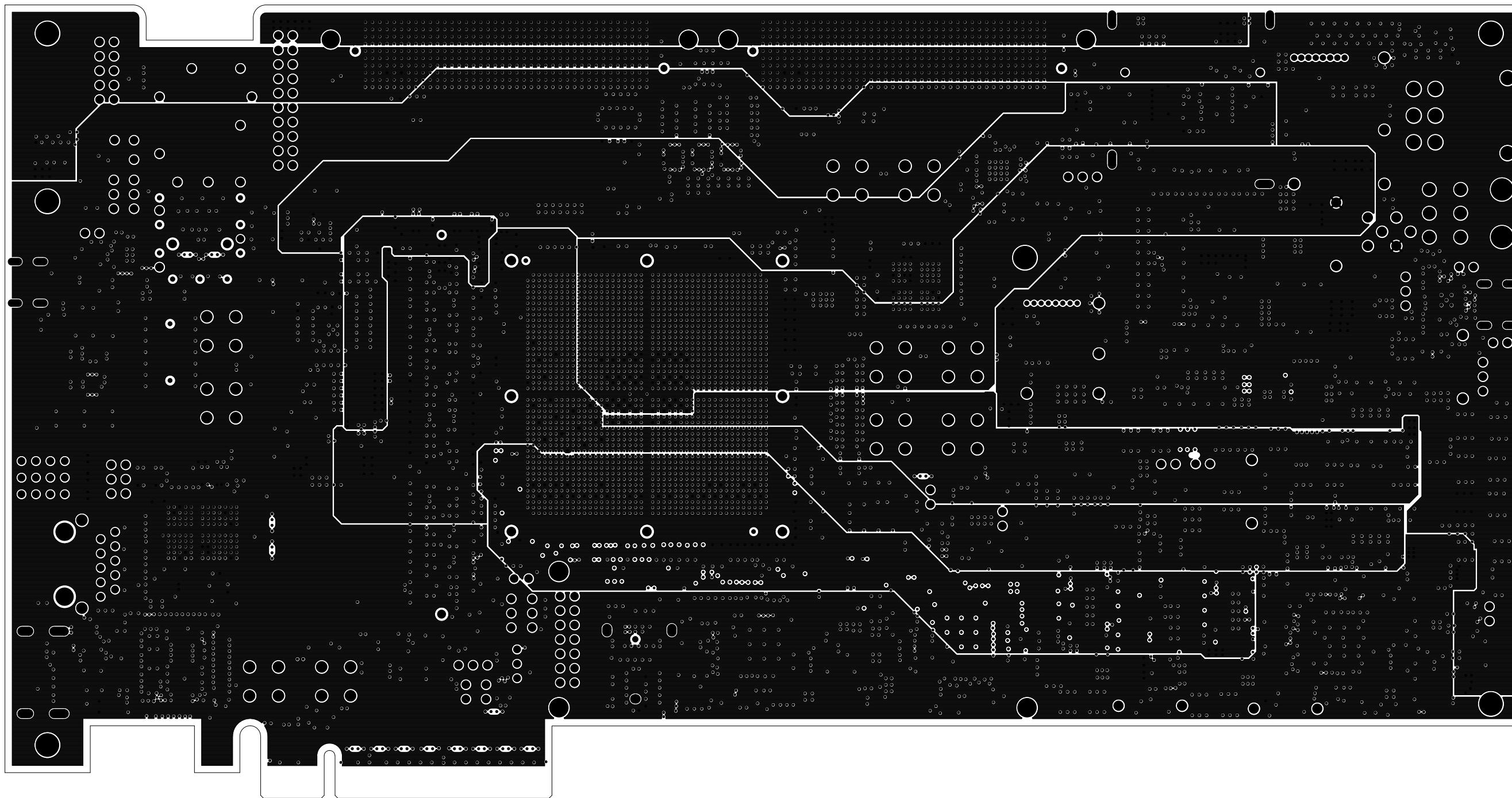
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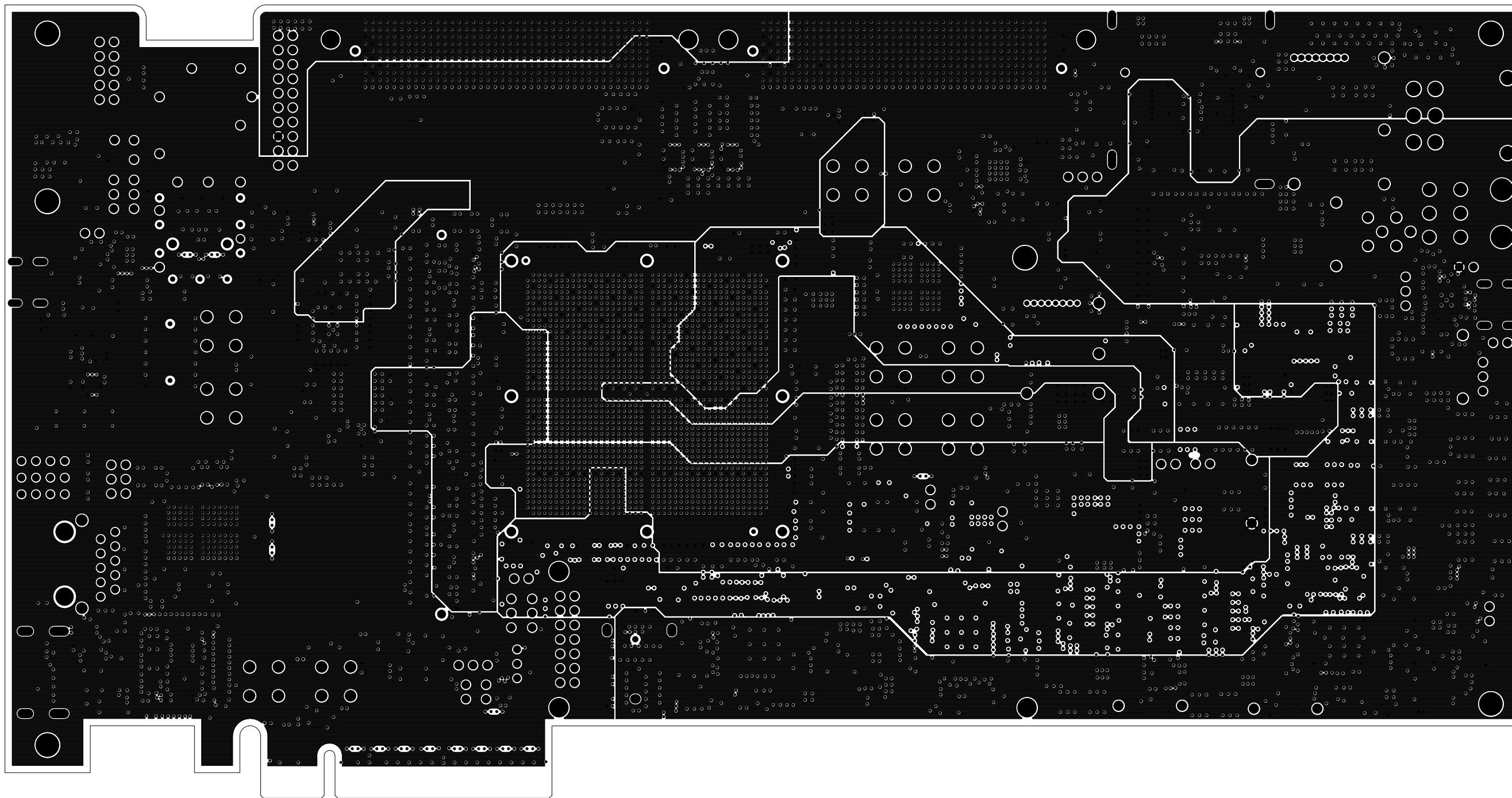
Layer: GND4	Sheet: 08 of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707
Whizz Job Number: 5542	Date: 02.09.2012
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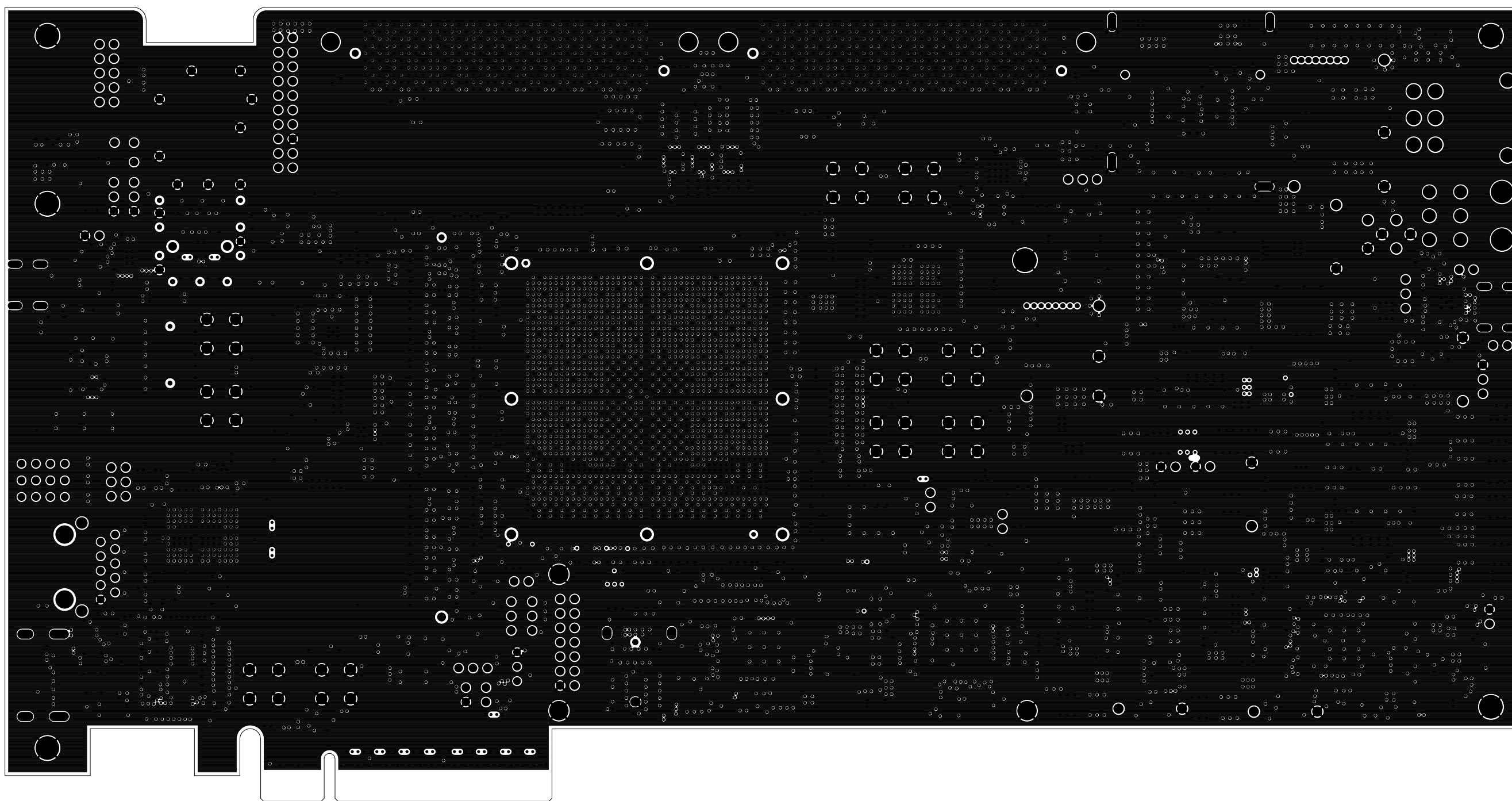
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Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.		
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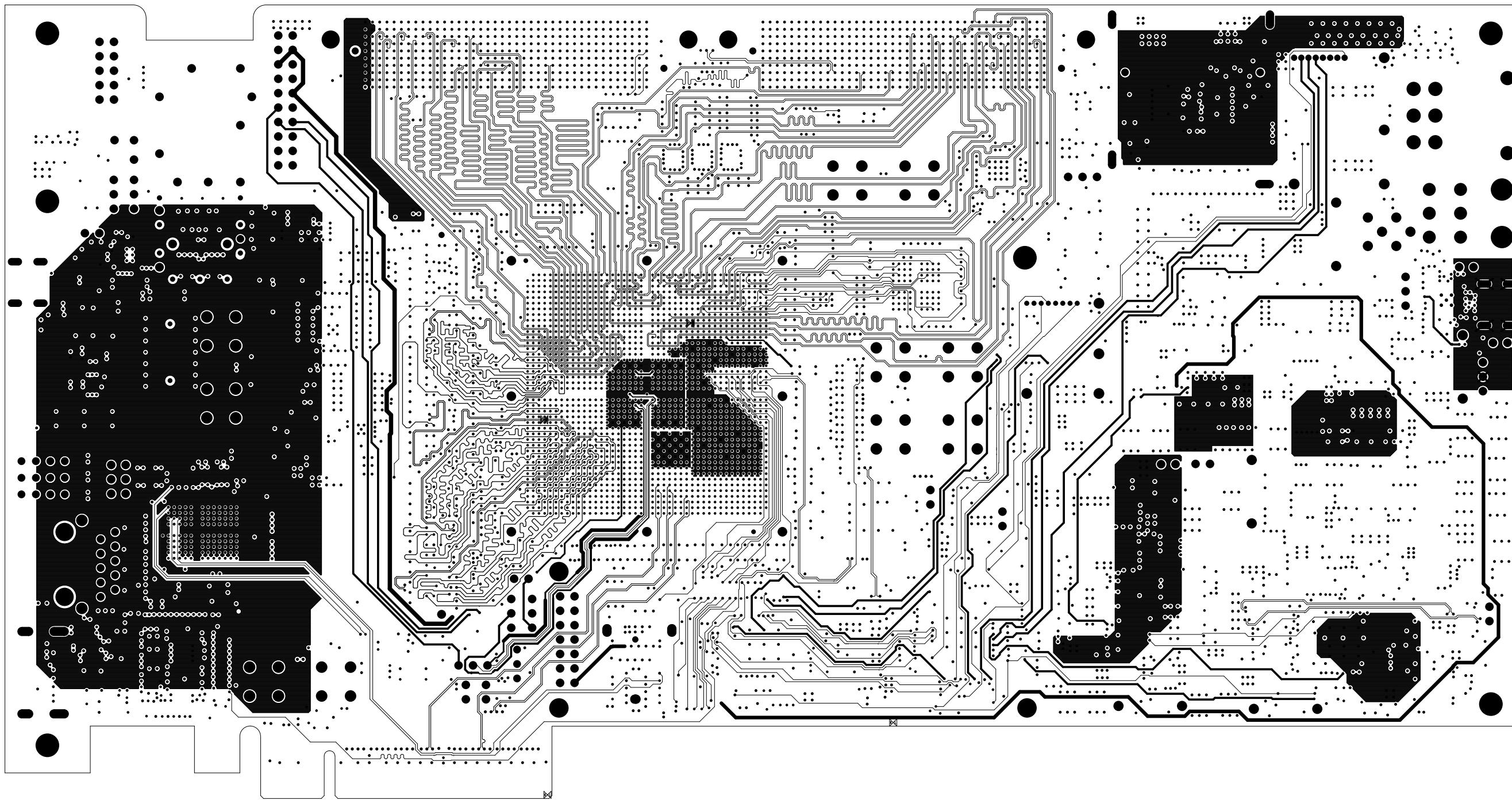
Layer: PWR2	Sheet: 10 of: 24		
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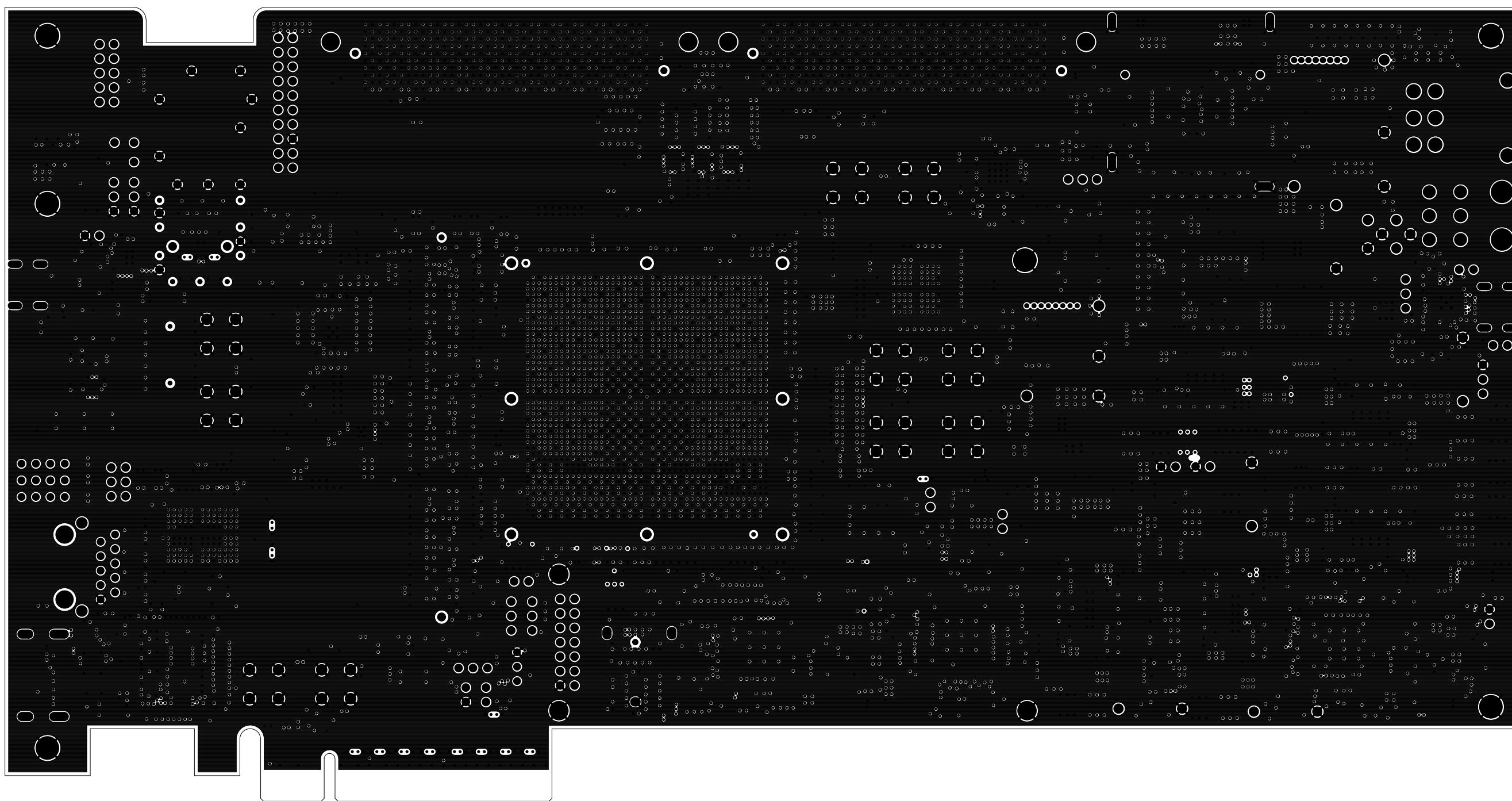
Layer: GND5	Sheet: 11 of: 24		
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.		
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707		
Whizz Job Number: 5542	Date: 02.09.2012	Project Number: 1280586	REV. 1.0
LATEST NETLIST REV OR DATE: 02.04.2012	LATEST MECHANICAL REV OR DATE: mm.dd.yyyy		



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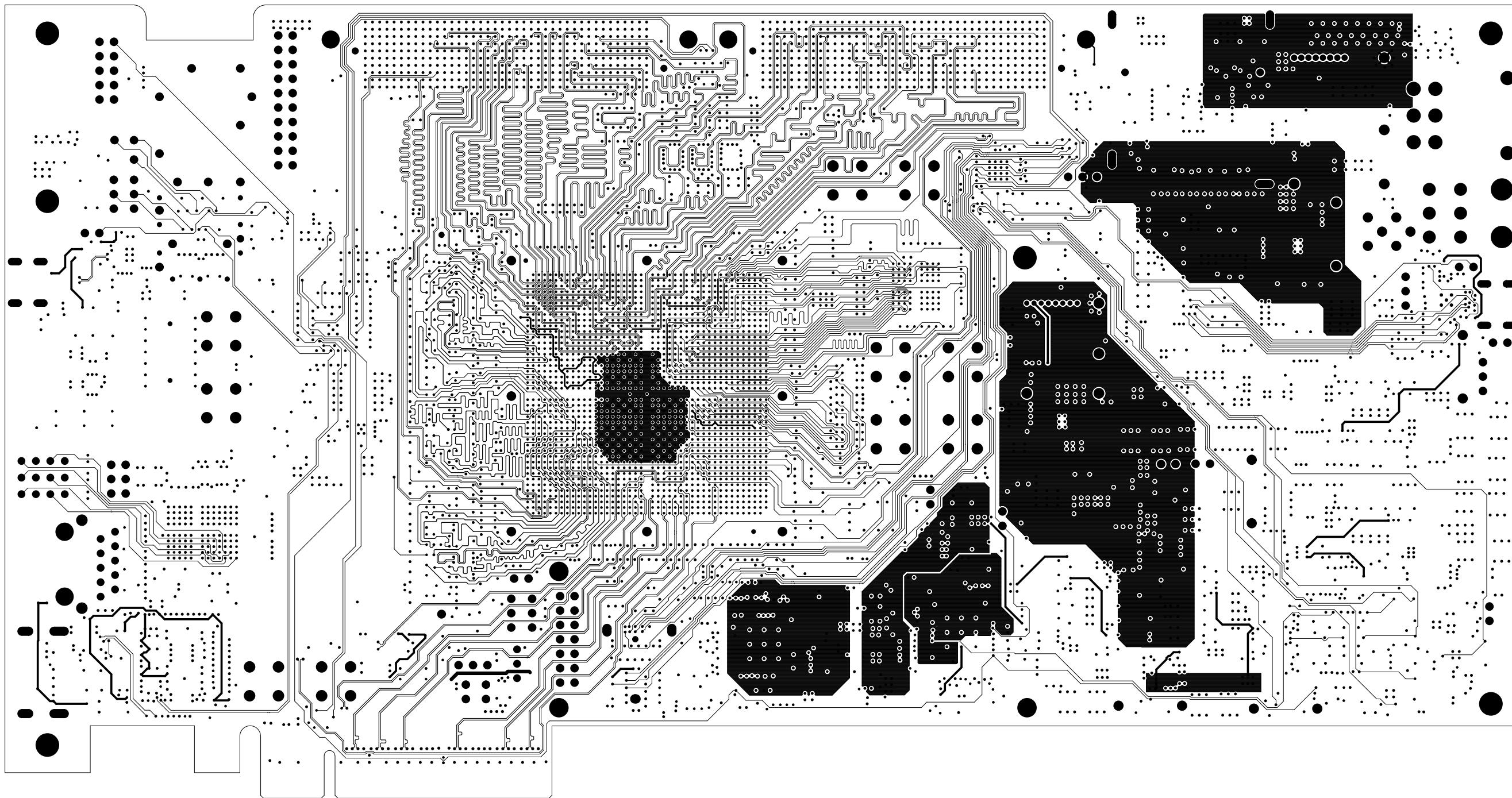
Layer:	SIG4	Sheet:	12	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	1280586 REV. 1.0
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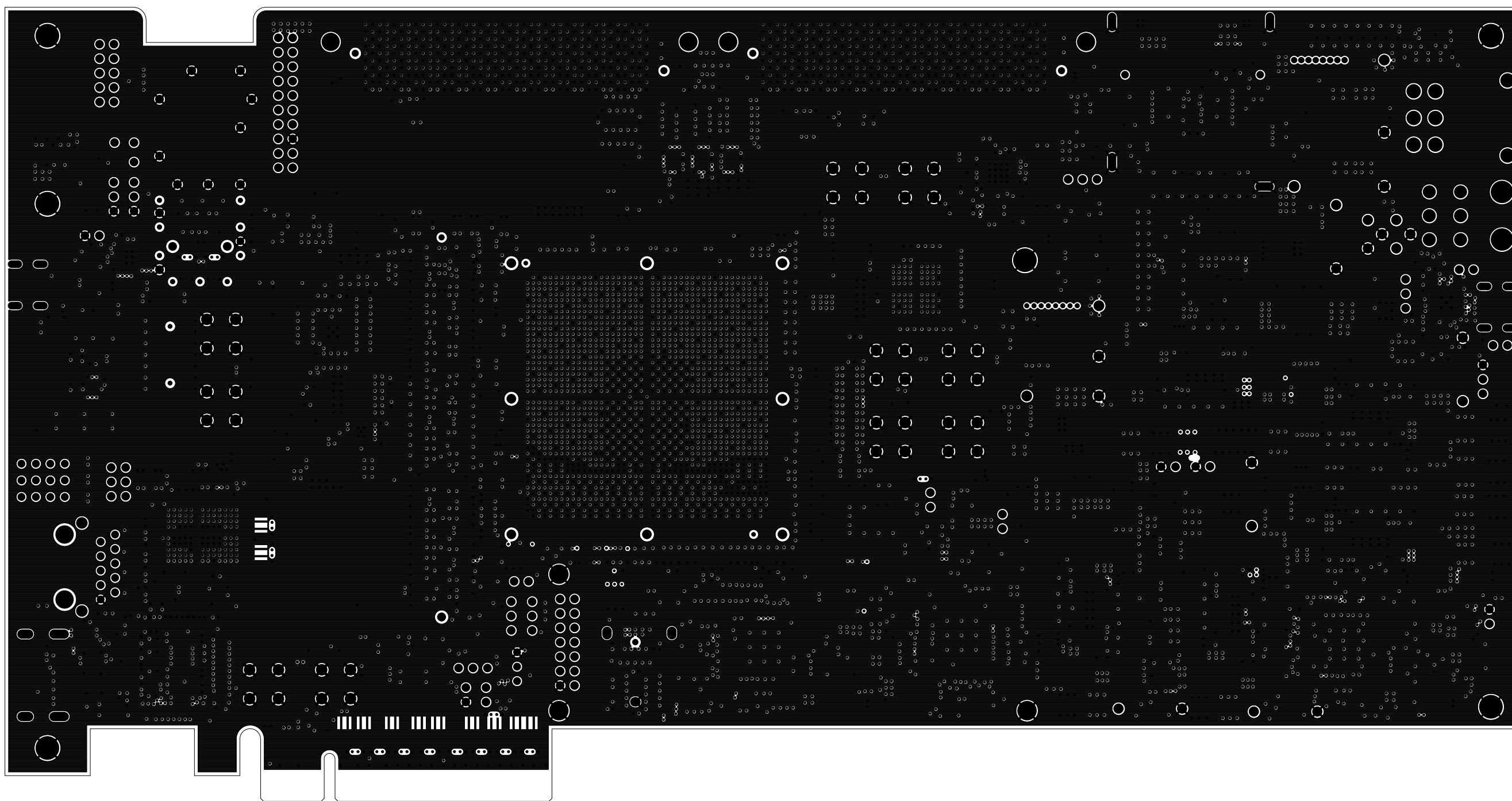
Layer: GND6	Sheet: 13 of: 24		
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.		
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707		
Whizz Job Number: 5542	Date: 02.09.2012	Project Number: 1280586	REV. 1.0
LATEST NETLIST REV OR DATE: 02.04.2012	LATEST MECHANICAL REV OR DATE: mm.dd.yyyy		



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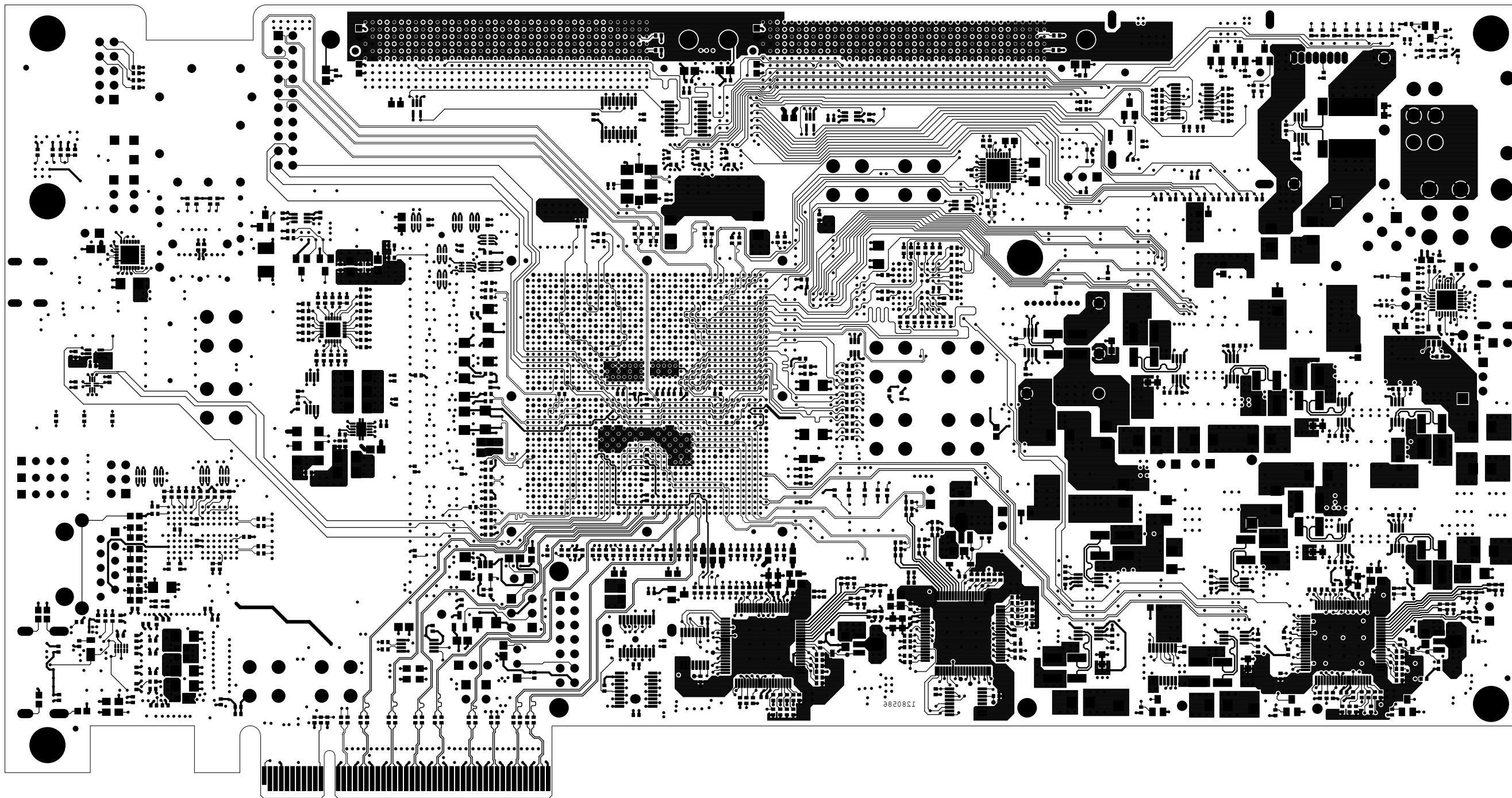
Layer:	SIG5	Sheet:	14	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	REV. 1.0 1280586
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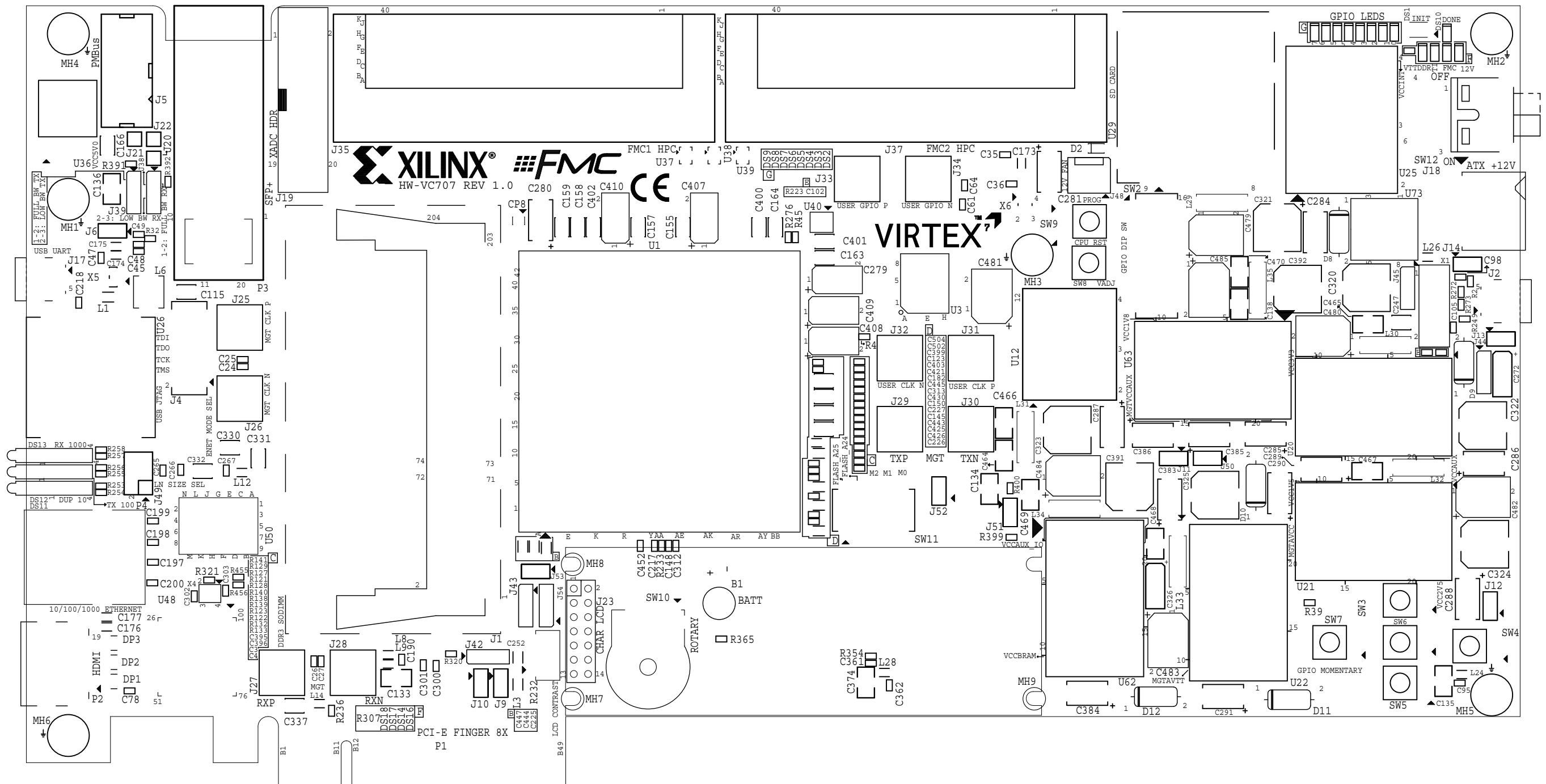
Layer:	GND7	Sheet:	15	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	REV. 1.0 1280586
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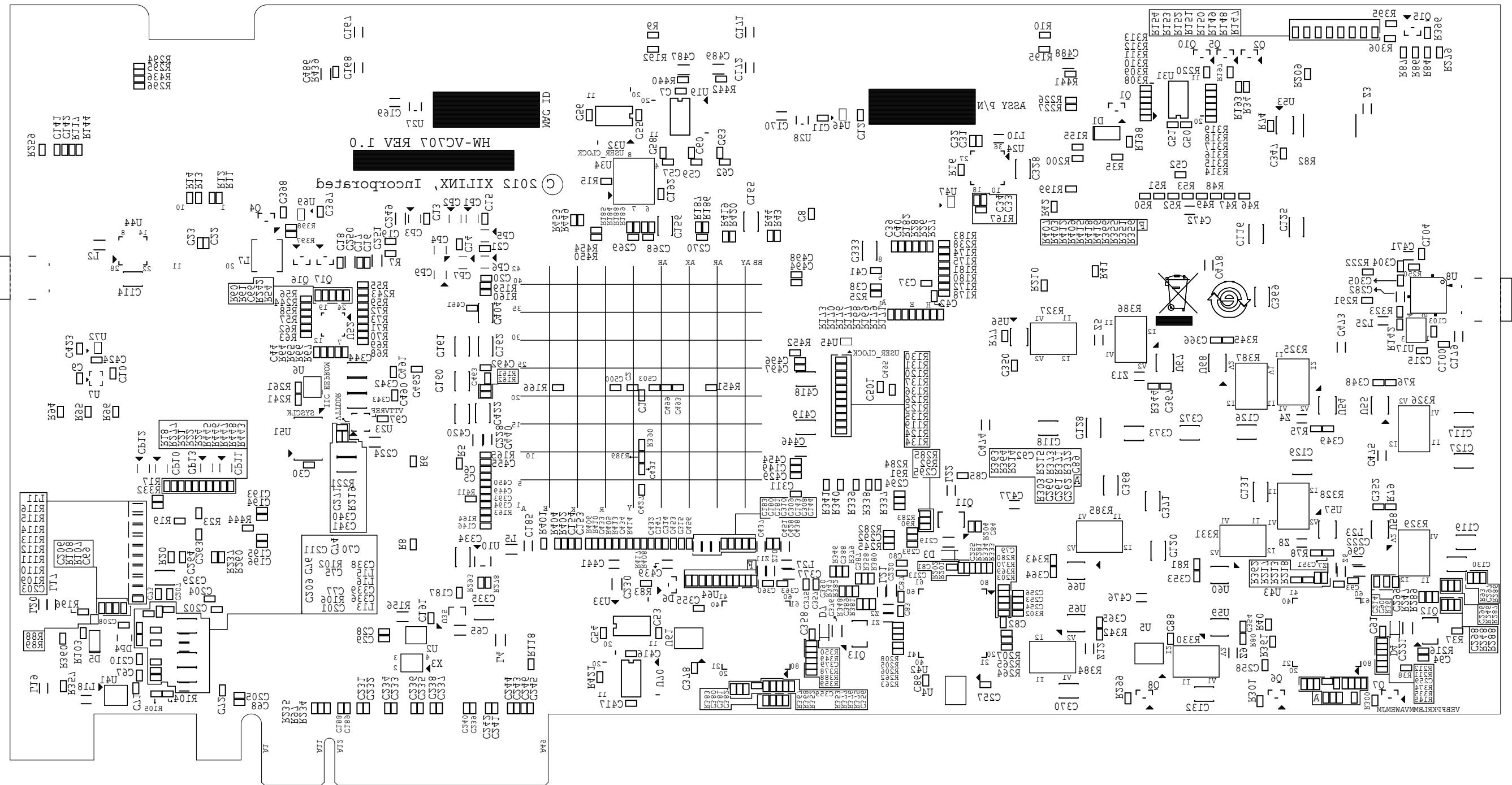
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Layer:	BOTTOM	Sheet:	16	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	REV. 1.0
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy	1280586	



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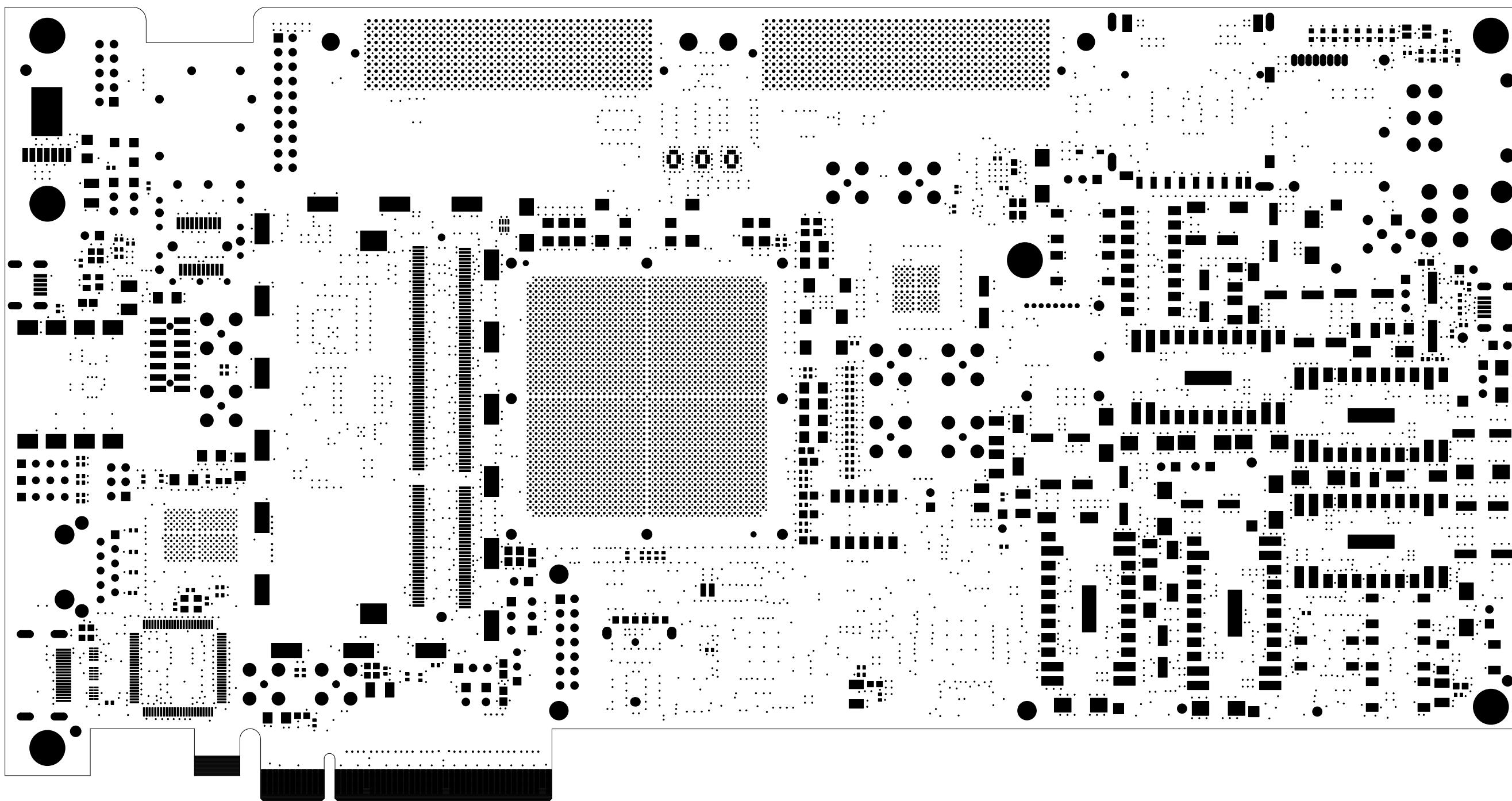
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Layer: SILK TOP	Sheet: 17	of: 24	
layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.		
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707		
Thizz Job Number: 5542	Date: 02.09.2012	Project Number: 1280586	REV. 1.0
02.04.2012		LATEST MECHANICAL REV OR DATE: mm.dd.yyyy	



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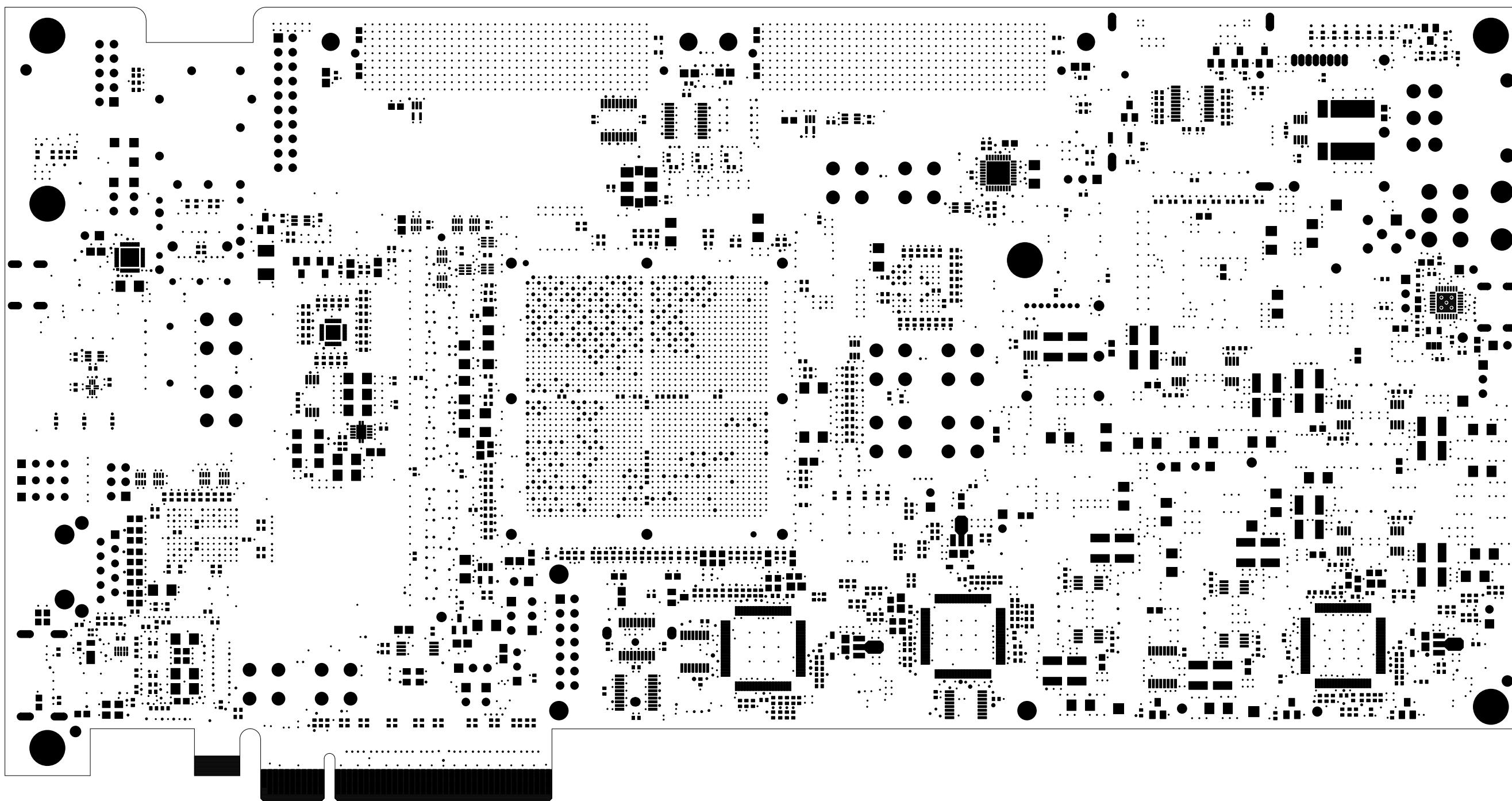
Layer: SILK_BOT	Sheet: 18 of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707
Whizz Job Number: 5542	Date: 02.09.2012
	Project Number: 1280586 REV. 1.0
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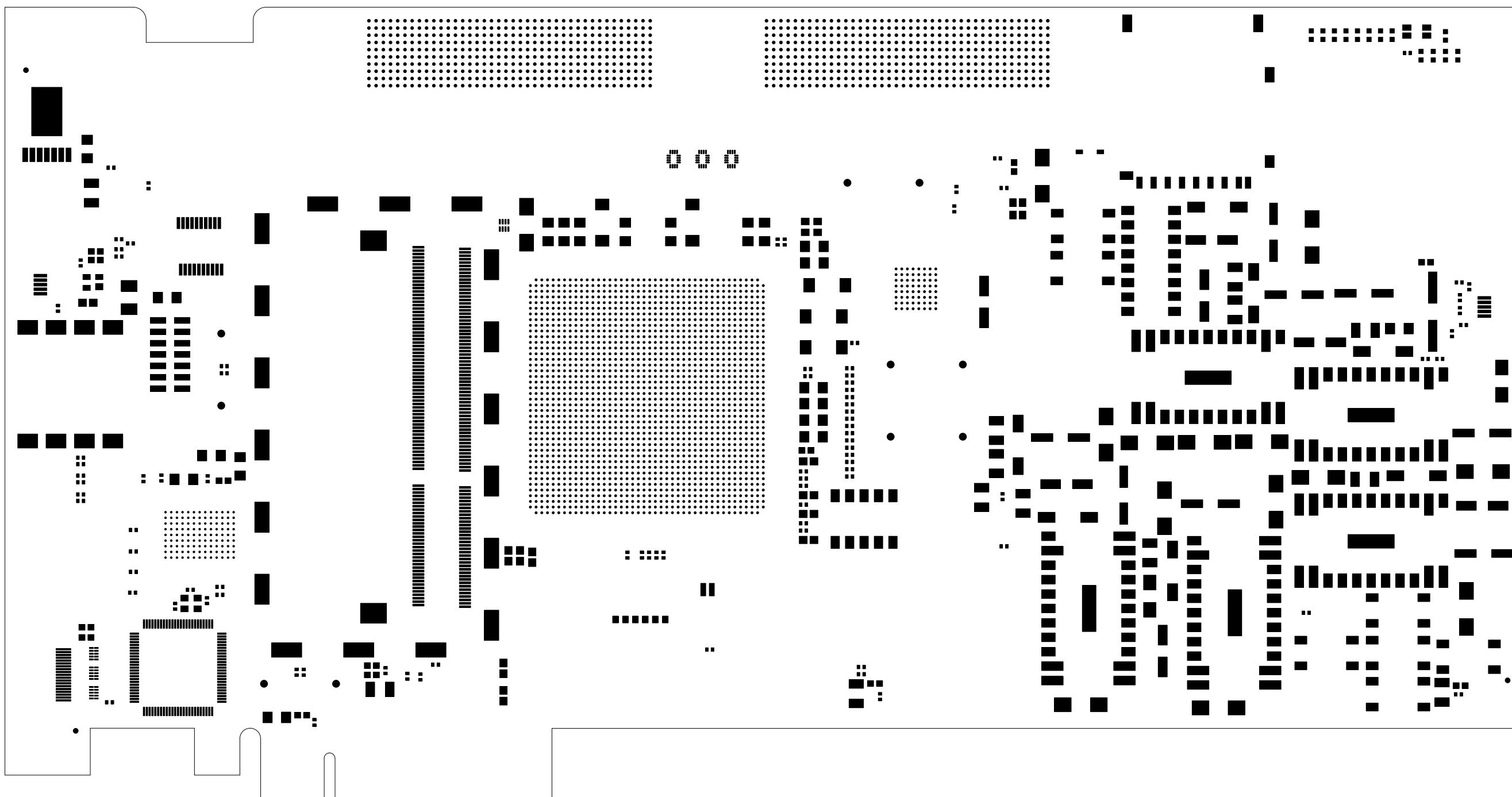
Layer:	SMASK_TOP	Sheet:	19	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	REV. 1.0 1280586
LATEST NETLIST REV OR DATE: 02.04.2012			LATEST MECHANICAL REV OR DATE: mm.dd.yyyy		



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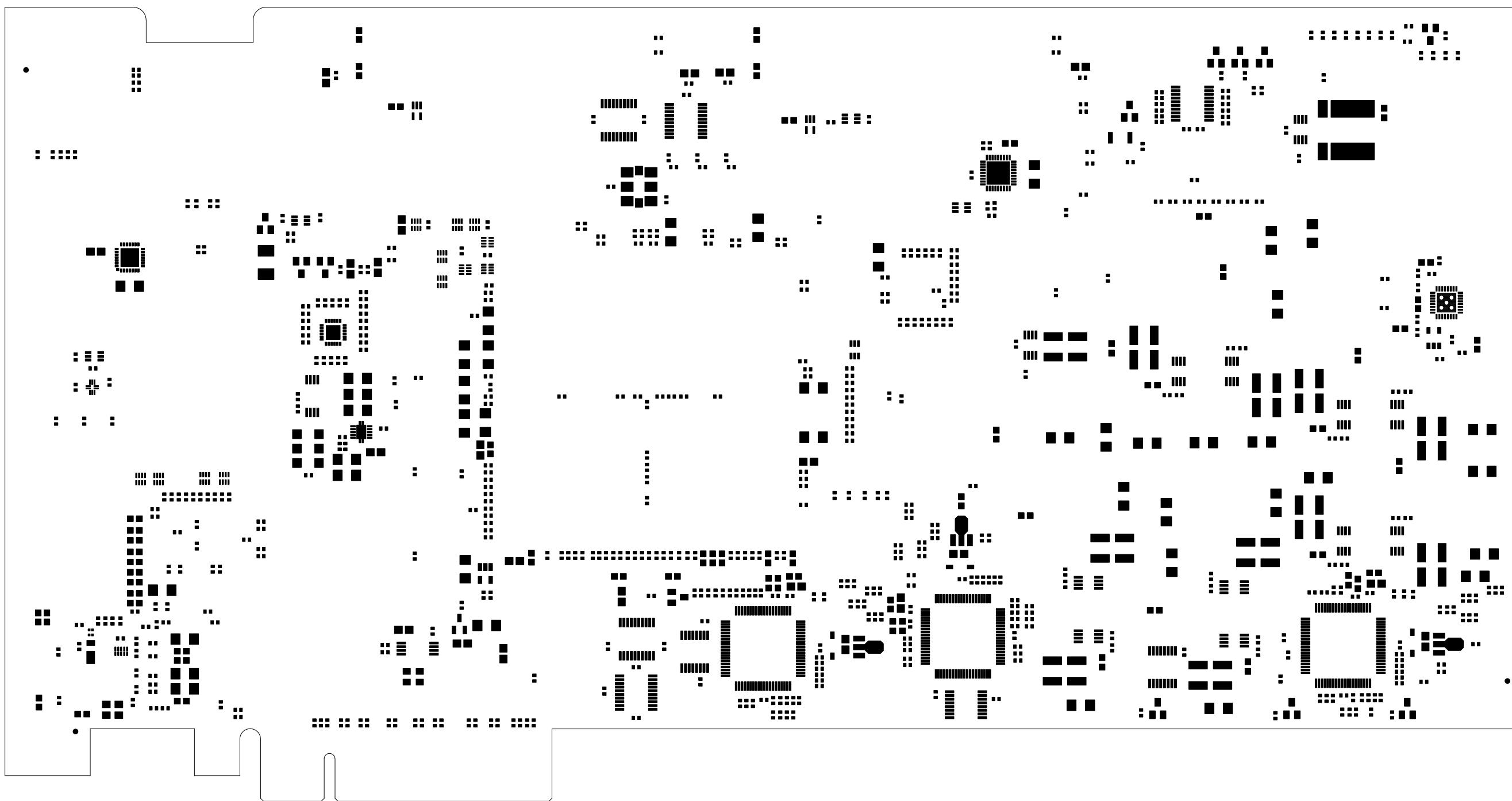
Layer: SMASK_BOT	Sheet: 20	of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.	
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707	
Whizz Job Number: 5542	Date: 02.09.2012	Project Number: 1280586 REV. 1.0
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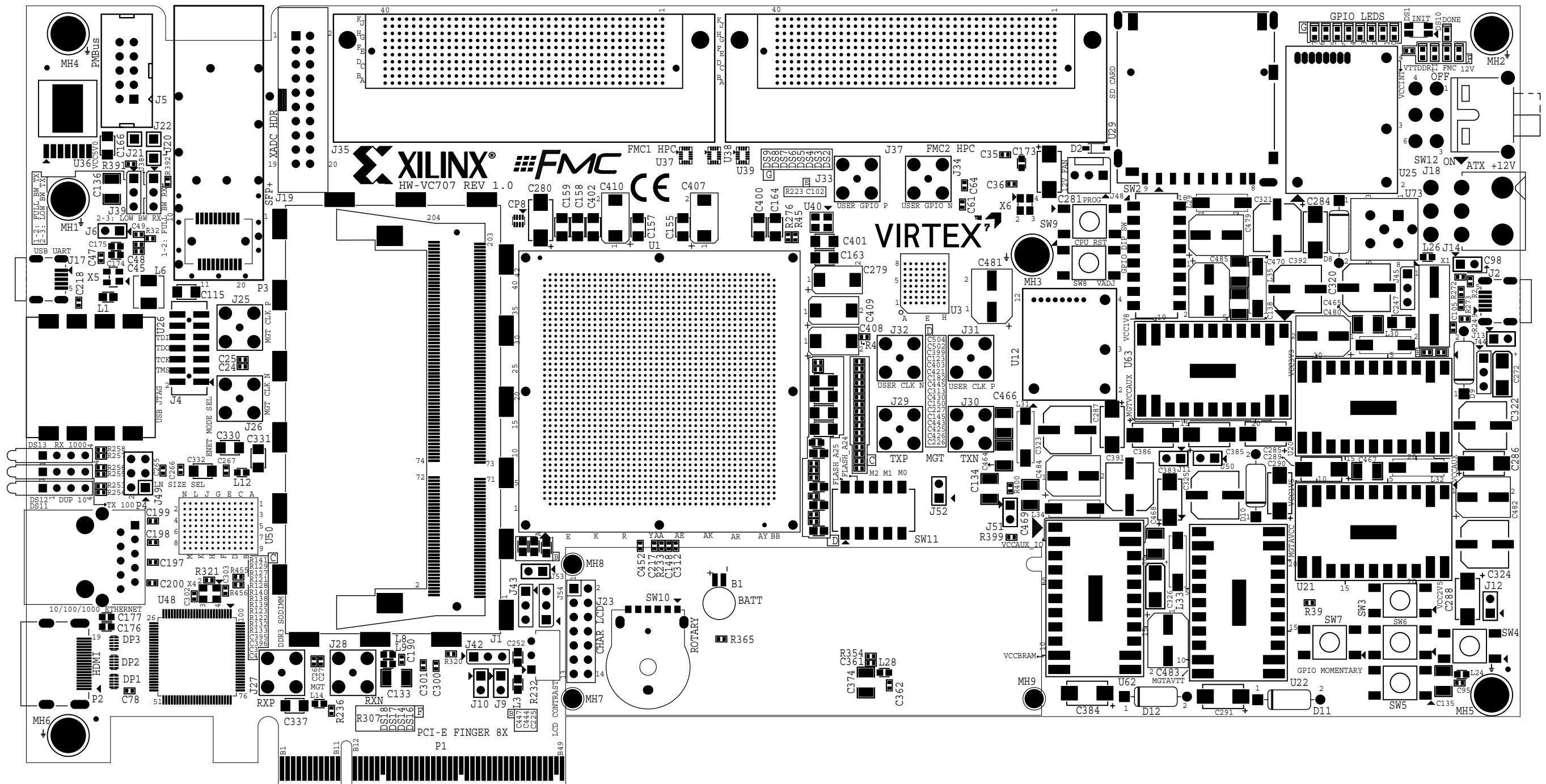
Layer: PMASK_TOP	Sheet: 21	of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.	
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707	
Whizz Job Number: 5542	Date: 02.09.2012	Project Number: 1280586 REV. 1.0
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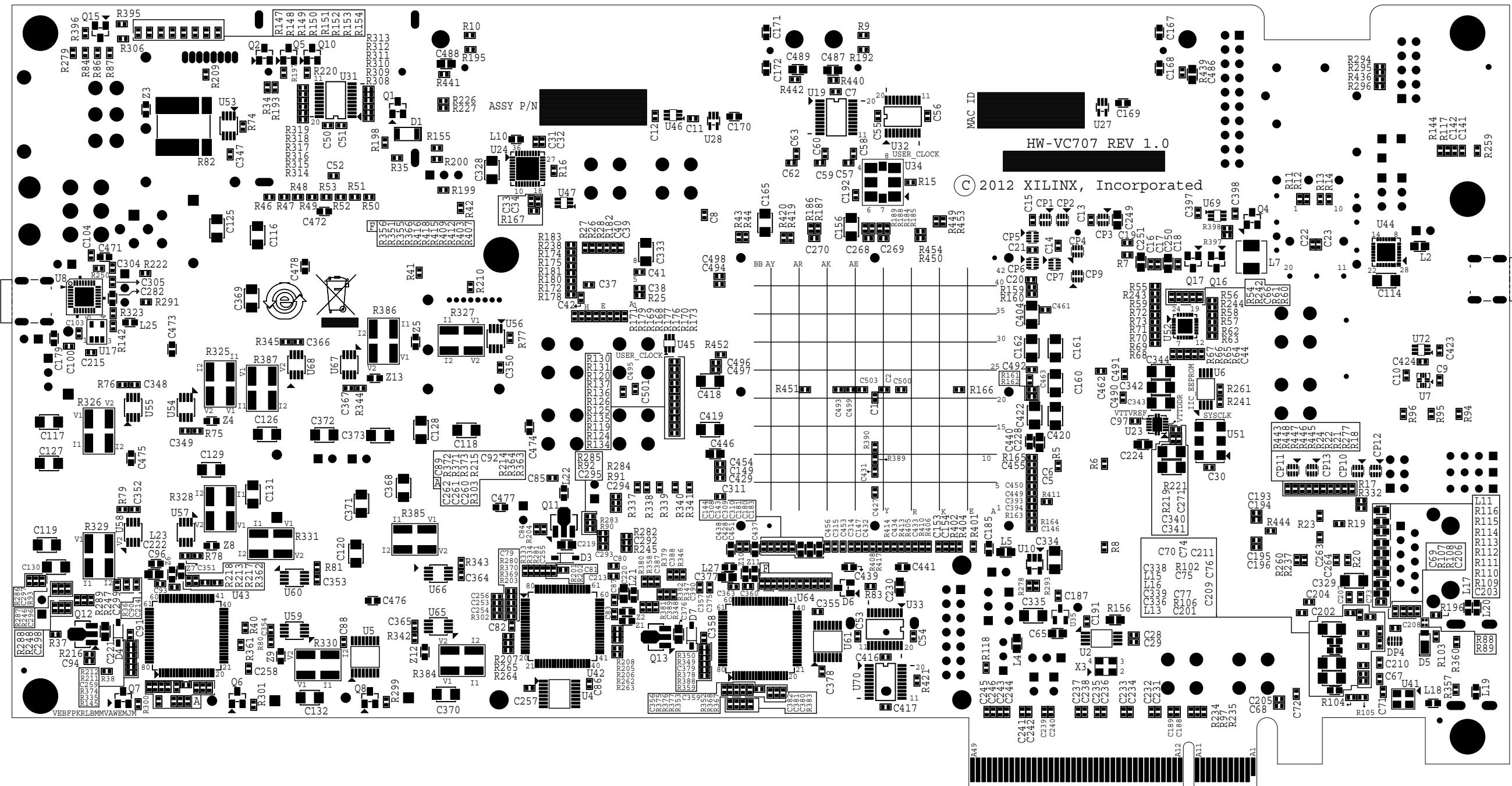
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Layer:	PMASK_BOT	Sheet:	22	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	5542	Date:	02.09.2012	Project Number:	REV. 1.0
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



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Layer: ASSY_TOP	Sheet: 23	of: 24	
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.		
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707		
Whizz Job Number: 5542	Date: 02.09.2012	Project Number: 1280586	REV. 1.
02.04.2012		LATEST MECHANICAL REV OR DATE: mm.dd.yyyy	



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Layer: ASSY_BOT Sheet: 24 of: 24

Layout Engineer: FAWAD MUNAWAR Company Name: XILINX, INC.

Design Engineer: BRIAN FORSSE Project Name: HW-VC707

Whizz Job Number: 5542 Date: 02.09.2012 Project Number: 1280586 REV. 1.0

LATEST NETLIST REV OR DATE: 02.04.2012

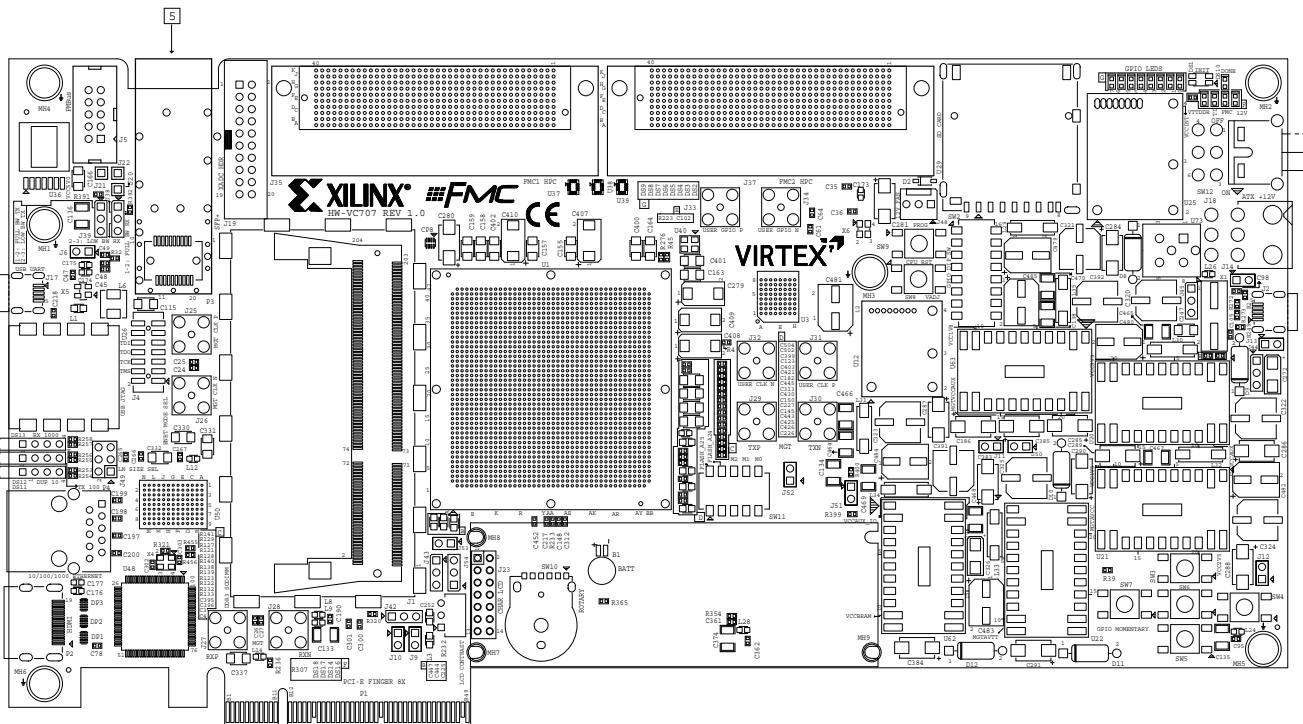
LATEST MECHANICAL REV OR DATE: mm.dd.yyyy

REVISIONS			
ZONE	REV	DESCRIPTION	DATE APPROVED
	1.0	INITIAL RELEASE	02/09/12 BP

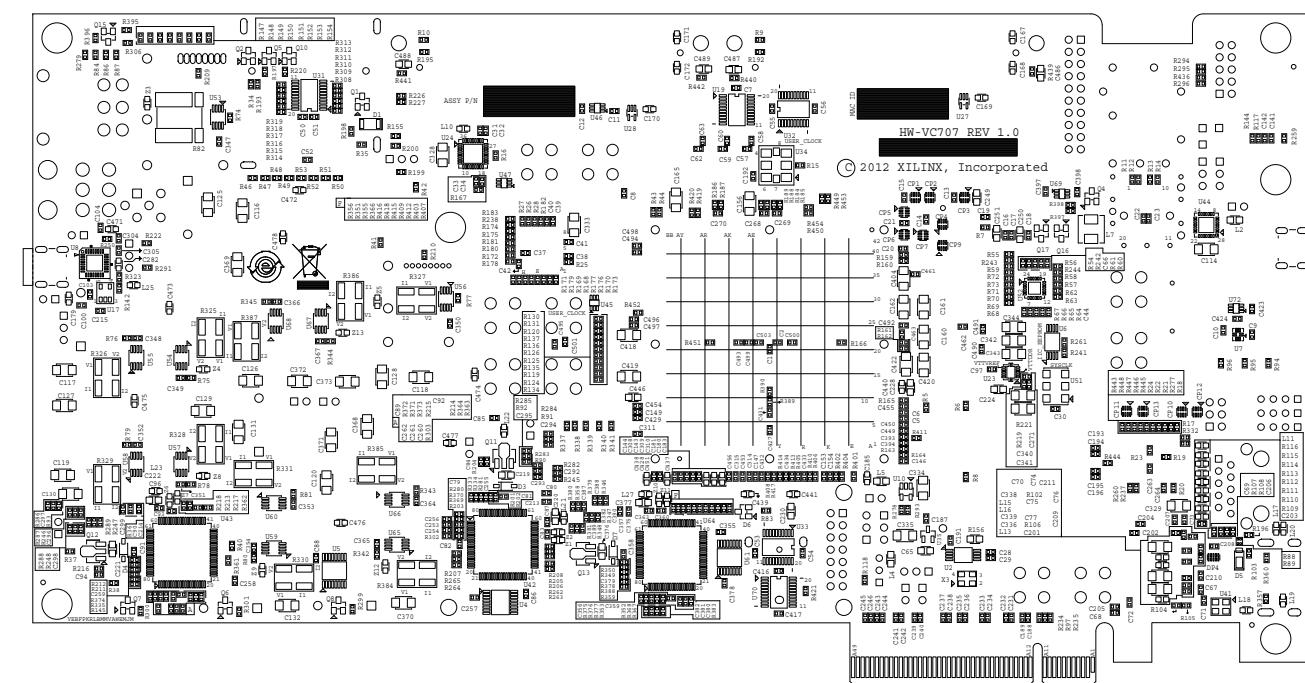
D

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- NOTES: (UNLESS OTHERWISE SPECIFIED)
- ASSEMBLE TO MEET INSPECTION CRITERIA OF IPC-A-610, CLASS 2, CURRENT REVISION.
 - BAG AND TAG (OR MARK CONTAINER) WITH PART NUMBER.
 - REFERENCE SCHEMATIC (OR AVL) FOR BILL OF MATERIALS.
 - ASSEMBLY SHOULD BE "ROHS" AND "LEAD FREE" COMPLIANT.
 - P3 IS PRESSFIT CONNECTOR.



VIEWED FROM TOP SIDE



VIEWED FROM BOTTOM SIDE

A

A

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES ON:		APPROVAL	DATE	CUSTOMER:	
LINEAR DIMENSIONS ANGLES		DRAWN:		XILINX, INC	
.XX	= ± .030	XX XX	= ± 0 .00	PROJECT NAME:	
.XX	= ± .030	XX X	= ± 1 .00	HW-VC707	
.X	= ± .100	XX	= ± 5.0°	SIZE: D ASSY DWG. NO.	
DRAWING SYMBOLS & TOLERANCE PER ANSI Y14.5M-1994		CHECKED:	02-09-12	REV. 1.0	
		DRAWN:	Fawad Munawar	SHEET 1 OF 1	
		CHECKED:	Rashid Mehmood		
		ENGR:	Brian Forssé		
		APPROVAL:	Brian Forssé		
		WHIZZ JOB NO.	5542		
		DO NOT SCALE DRAWING	SCALE: 1:1		