

Design Title:

ARCHITECH SERIZ II DEMO BOARD – BOM

Date: 12/09/2012

Time: 17:24

RoHS COMPLIANT BOARD

Variant : ARCHITECH SERIZ II – 888 – Rev. B – DEFAULT VARIANT

Part Name/Number	Description	Qty	Comps
0 0603	RESISTENZA PONTE SMD C0603	1	R110 [NOT FITTED]; R118
0.56UH IMC1210	IND.VISHAY DALE IMC1210ERR56K	2	LT1-2
0.56UH MLF2012	INDUCTOR TDK MLF2012DR56K	0	L5-6 [NOT FITTED]; L8-9 [NOT FITTED]
1 0603	RESISTENZA 5% SMD C0603	1	R73
100N 1206	CAP Z5U 63V SMD C1206	1	C37
100N 16V X7R 0402	CAP X7R 16V SMD C0402	50	C5 [NOT FITTED]; C7-8 [NOT FITTED]; C12-14 [NOT FITTED]; C19-23; C27 [NOT FITTED]; C28-29; C30 [NOT FITTED]; C31; C33 [NOT FITTED]; C35 [NOT FITTED]; C38; C41 [NOT FITTED]; C42; C44-48 [NOT FITTED]; C55-57; C58 [NOT FITTED]; C60 [NOT FITTED]; C62-67;C70;C75-76;C80; C83;C87-93;C95- 103;C106; C109- 111;C116;C119;C121; C123;C125;C127
100P NP0 0603	CAP NP0/COG 50V SMD C0603	0	C15-16 [NOT FITTED]; C39-40 [NOT FITTED]; C49-54 [NOT FITTED]
100U 6V3 SW SMD	PANASONIC EEE-FPJ101UAR DIA=5	1	C26
100U 6V3 T520	KEMET T520B107M006ATE070 CASEB ESR=0,07 Ir=0,4A	1	C120
10K 0603	RESISTENZA 5% SMD C0603	36	R1-4;R11; R12 [NOT FITTED]; R17-20; R24 [NOT FITTED]; R25; R36 [NOT FITTED]; R39; R52 [NOT FITTED]; R60; R70 [NOT FITTED]; R77-80;R86;R89-90;R92- 94; R96;R100;R102;R111- 115; R119-124
10K NTC 0805	RES.NTC EPCOS B57620C0103-J062	1	RV1
10N 0603	CAP X7R 50V SMD C0603	10	C25;C68;C73;C77;C79; C85;C94;C104;C108;C13
		1	
10P 2% NP0 250V HQ 060	MULTY-LAY HIGH-Q CAP JOHANSON	2	CM5-6

10U 6V3 TPS A	CAP.AVX TPSA106K006R1500 CASEA ESR=1,5 Ir=0,2A	3	C69;C118;C130
10U 6V3 X5R 0603	TDK C1608X5R0J106M	2	C3-4 [NOT FITTED]; C11 [NOT FITTED]; C18 [NOT FITTED]; C34 [NOT FITTED]; C36 [NOT FITTED]; C43 [NOT FITTED]; C61 [NOT FITTED]; C112-113
12K 1% 0603	RESISTENZA 1% SMD C0603	1	R97
12MHZ SX6/405	QUARZO 2BELETTRONICA/CTS-BFI	1	X3
150 0603	RESISTENZA 5% SMD C0603	0	R117 [NOT FITTED]
150 1% 0603	RESISTENZA 1% SMD C0603	6	R31-34; R41-42 [NOT FITTED]; R45-46 [NOT FITTED]; R61 [NOT FITTED]; R72;R75
150K 0603	RESISTENZA 5% SMD C0603	2	R21;R23
150P 0603	CAP X7R 50V SMD C0603	2	CXN;CXP
150P 2% NP0 250V HQ 08	MULTY-LAY HIGH-Q CAP JOHANSON	2	CF1-2
15K 0603	RESISTENZA 5% SMD C0603	0	R98-99 [NOT FITTED]
15P NP0 0603	CAP NP0/COG 50V SMD C0603	4	C84;C107;C124;C126
18 0603	RESISTENZA 5% SMD C0603	0	R26 [NOT FITTED]; R29-30 [NOT FITTED]; R35 [NOT FITTED]; R37-38 [NOT FITTED]
1K 1% 0603	RESISTENZA 1% SMD C0603	4	R15 [NOT FITTED]; R51 [NOT FITTED]; R53-54 [NOT FITTED]; R66 [NOT FITTED]; R84;R91;R107-108
1K5 0603	RESISTENZA 5% SMD C0603	3	R8;R58;R71
1U 16V X7R 0603	CAP CERAMIC X7R 10% SMD	6	C2;C24; C59 [NOT FITTED]; C71;C78;C86;C105
2.2 0603	RESISTENZA 5% SMD C0603	2	R76;R85
2.2 0805	RESISTENZA 5% SMD C0805	2	RA1-2
22K 1% 0603	RESISTENZA 1% SMD C0603	3	R9;R14;R27
22P NP0 0603	CAP NP0/COG 50V SMD C0603	5	C9;C81-82;C128-129
27.12MHZ CX2520	AVX KYOC. CX2520SB27120D0FLJZZ	1	X1
27P 2% NP0 250V HQ 060	MULTY-LAY HIGH-Q CAP JOHANSON	2	CM1-2
2K2 0603	RESISTENZA 5% SMD C0603	4	R59;R65;R68-69
3.3UH CDRH4D28C	2,3A 0R042 SCHERMATA SUMIDA	1	L2
32768HZ CL6 SMD	QUARZ.RALTRON RSE-32,768-06-H2	1	X2
33 1% 0603	SMD RESISTOR 1% C0603	3	R10; R28 [NOT FITTED]; R55 [NOT FITTED]; R103-104
330 0603	RESISTENZA 5% SMD C0603	5	R5-6;R50;R105-106
470K 0603	RESISTENZA 5% SMD C0603	1	R16
470N 10V X7R 0603	CAP X7R 10V SMD C0603	4	C17;C114-115;C117
47K 0603	RESISTENZA 5% SMD C0603	3	R7;R13;R83
49.9 1% 0603	RESISTENZA 1% SMD C0603	4	R56-57;R63-64
4K7 0603	RESISTENZA 5% SMD C0603	2	R95;R101
4K87 1% 0603	RESISTENZA 1% SMD C0603	1	R74
4U7 50V X5R 1206	CAP CERAMICO X5R	1	C32
4U7 6V3 X5R 0603	KEMET C0603C475M9PAC	6	C1;C6;C10;C72;C74;C122
50MHZ JO75 3V3	OSC.JAUCH 3V3 0 50.0-JO75-B-3	1	U10
56 0603	RESISTENZA 5% SMD C0603	4	R81-82;R87-88
560 0603	RESISTENZA 5% SMD C0603	2	R62;R67
5K1 1% 0603	RESISTENZA 1% SMD C0603	2	RXN;RXP

68 0603	RESISTENZA 5% SMD C0603	2	R109;R116
680K 0603	RESISTENZA 5% SMD C0603	1	R22
68P 2% NP0 250V HQ 060	MULTY-LAY HIGH-Q CAP JOHANSON	4	CF3-4; CM3-4 [NOT FITTED]; CM7-8
74HC1G04GW	NXP INVERTER SMD	1	U13
75 1% 0603	RESISTENZA 1% SMD C0603	0	R40 [NOT FITTED]; R43-44 [NOT FITTED]; R47-49 [NOT FITTED]
ADC14L020CIVY	A7D 14BIT CONVERTER NATIONAL SMD	0	U2 [NOT FITTED]
BEAD 2K2-100MHZ 0603	1R5/0,05A MURATA BLM18BD222SN1	6	L1 [NOT FITTED]; L4 [NOT FITTED]; L7 [NOT FITTED]; L10 [NOT FITTED]; L11-16
CAY16-222J4	ARRAY 4 R 2K2 SMD,BOURNS CAY16-222J4	1	RN4
CAY16-330J4	ARRAY 4 R 33 SMD,BOURNS CAY16-330J4	0	RN1-3 [NOT FITTED]
CDCE62002RHBR	TI PLL	0	RG1 [NOT FITTED]
CLRC66301HN1	NXP 14,5MHz RFID INTERFACE	1	U12
DP83848CVV	NATIONAL 10/100 Mb/s ETHERNET CONTROLLER	1	U9
FLAT 2X10	CONNET. CAVO PIATTO MASCHIO LP	1	CN13
FT232RL	USB UART BRIDGE SSOP28	1	U14
FTS-105-01-L-D	STRIP MALE SAMTEC 2x5 P=50x50"	1	CN11
HEC2305-01-250	HOSIDEN POWER JACK HOR DIA 2	1	CN2
ITT CCM03-3003	Connettore SIM Card 4x2pin SMD	1	CN9
J0011D01B	10/100BASET INTEGR.RJ45 PULSE	1	XF1
JUMPER 1-2 3 LC 0603	PONTICELLO 0R 0603 PINS 1-2	1	J14
JUMPER 2PIN	PONTICEL STRIP MASCHIO 1x2 PIN	9	J1;J6-7;J9-13;J15
JUMPER 2PIN R LOW HEI	MALE STRIP 1x2PIN RIGHT ANGLE LOW HEIGHT (3mm MAX)	1	J8
JUMPER 3PIN	PONTICEL STRIP MASCHIO 1x3 PIN	4	J2-5
LB Q39G-N1P1-35-1	OSRAM BLUE LED SMD 0603	1	LED3
LG Q971-KN-1	OSRAM GREEN LED SMD 0603	2	LED5;LED8; LED9 [NOT FITTED]
LMH6551MA	LOW POWER DIFFERENTIAL AMPLIFIER	0	U6-7 [NOT FITTED]
LPC4350FET256	NXP 32 bit CORTEX-M4 MICROCONTROLLER	1	U11
LS Q976-NR-1	OSRAM RED LED SMD C0603	5	LED1-2;LED4;LED6-7
M25P10-A VMN6T	NUMONYX SER.FLASH 1Mb 3V3 SO8	0	U3 [NOT FITTED]
M28W320FCT70N	NUMONYX 32 Mbit 3V FLASH MEMORY	1	U8
MINI-B USB R SMD	SOCKET KYCON KMB-SMT-5S-S-30-TR	1	CN12
MOLEX 5267 2	MOLEX 2 PIN 5267-NA 22-03-5025	1	CN1
MT48LC4M16A2TG-75	SDRAM MICRON 1Mx16x4 TSOP54 3V3	1	U5
NX3DV3899GU	NXP Dual double-pole double-throw analog switch	0	SW1 [NOT FITTED]
PAD1	ANCORAGGIO PAD0603	0	A1-5 [NOT FITTED]
PRTR5V0U2X	PROTEZIONE PHILIPS x USB SMD	3	V2-4
KT-1105S-BAM0846T	PULSANTE KOSAM SMD	2	S1-2
SL3S4001FHK	NXP UCODE I2C TRANSPONDER	1	RF1
SMD050	FUSE RAYCHEM 60V/0,5A 0,87OHM	1	V1
SS14	SCHOTTKY FAIRCHILD/G.I. 1A/40V	1	D1
STRIP 4x1	STRIP MASCHIO PASSO 2.54	0	CN8 [NOT FITTED]
STRIP FEMA 13x2	STRIP FEMMINA P.2,54 2x13 PIN	2	CN4-5
STRIP FEMA 4x1	THT FEMALE STRIP 4x1 P2.54mm	1	CN6
STRIP FEMA 6x1	THT FEMALE STRIP 6x1 P2.54mm	1	CN3
TPS2031D	TEXAS PROTECT POWER SWITCH .6A	1	RG2
TPS65721RSNT	PMIC Texas TPS65721RSNT	1	U1
USB A R	USBA KYCON KUSB-AS-1-N-BLK	1	CN10
USB MICRO-AB	MICRO USB AB TE CONNECTIVITY 1981584-1	1	CN7
W25Q80BVSSIG	WINBOND 8Mbit MEMORY DUAL/QUAD SPI	1	U4

NOTES:

ALTERNATIVE COMPONENTS:

POSITION L2:

3.3UH MSS5131	BOB. COILCRAFT MSS5131-332MLC	1	L3
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POSITION U4:

W25Q80BVSNI	WINBOND 8Mbit MEMORY DUAL/QUAD SPI	1	U4
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POSITIONS J9-13:

IN ORDER TO LET THE FINAL USER OF THE BOARD TO REMOVE THE ANTENNA IN POSITION J9-13 INSTEAD OF 5 MALE STRIP 2 PIN FIT A MALE STRIP 5X1 PIN CONNECTING THE NUMBER 1 PINS AND A MALE STRIP 5X1 PINS CONNECTING THE NUMBER 2 PINS

CLOSE THE FOLLOWING 2 PINS JUMPERS:

J1;J6;J10-12

CLOSE THE FOLLOWING 3 PINS JUMPERS:

J2-4 SHORT PIN2 AND 3

J5 SHORT PIN 1 AND 2

J6: PLACE THE JUMPER ONLY ON ONE PIN IN ORDER TO LEAVE IT OPEN

PCB FEATURES:

PCB 4 LAYERS – 1,6mm THICKNESS – NO SILK-SCREEN PRINTING

PCB LAYERS STACK: TOP LAYER
 GND LAYER
 VCC LAYER
 BOTTOM LAYER

SOLDER RESIST COLOUR: **RED**

PCB DIMENSIONS: 220mm X 100mm

END OF REPORT
