

Design Title:

RSR1157 Rev. C  
BC95/BG96 ARDUINO SHIELD  
BILL OF MATERIAL



Date: 24/10/2017

Time: 18:10

## RoHS COMPLIANT BOARD

Variant : RSR1157 Rev. C – BC95 VARIANT

Part Name/Number	Description	Qty	Comps
0 0402	SMD JUMPER RESISTOR C0402	2	R5;R7
0 0603	RESISTENZA PONTE SMD C0603	0	R9 [NOT FITTED]; R11-13 [NOT FITTED]
100K 1% 0402	SMD RESISTOR 1% C0402	3	R6;R8;R10; R18 [NOT FITTED]
100N 10V X7R 0402	CAP X7R 10V SMD C0402	7	C2;C11; C13 [NOT FITTED]; C15;C22-23;C27-28; C29 [NOT FITTED]
100P 50V NP0 0402	SMD CERAMIC CAPACITOR NP0/COG 50V C0402	0	C20 [NOT FITTED]
100U 10V X7R 1206	SMD CERAMIC CAPACITOR X7R 10V C1206	2	C12 [NOT FITTED]; C14;C25
10N 6V3 X7R 0402	CAP X7R 6V3 SMD C0402	1	C3
10P 10V NP0 0402	SMD CERAMIC CAPACITOR NP0/COG 10V C0402	1	C9; C16 [NOT FITTED]
124K 1% 0402	SMD RESISTOR 1% C0402	1	R4
13K 5% 0402	SMD RESISTOR 5% C0402	0	R19 [NOT FITTED]
15K 1% 0402	SMD RESISTOR 1% C0402	2	R1 [NOT FITTED]; R3;R14
1K 1% 0402	SMD RESISTOR 1% C0402	2	R20-21
22 1% 0402	SMD RESISTOR 1% C0402	3	R15-17
33P 10V NP0 0402	SMD CERAMIC CAPACITOR NP0/COG 10V C0402	4	C10; C17 [NOT FITTED]; C18;C24;C26
470U 6V3 SMD	PANASONIC CAP. EEE-FTJ471XAP DIA=6.3	1	C1
4U7 10V X7R 0805	CAP X7R 6V3 SMD C0805	2	C4;C7
4U7 6V3 X7R 0603	CAP X7R 6V3 SMD C0603	1	C8
ARDUINO_UNO ADD ON	SEE NOTE FOR STRIP DESCRIPTION	1	SBC1
BC95	QUECTEL NB-IoT Module	1	MOD1
BG96	QUECTEL LTE Cat.M1/NB1 AND EGPRS Module	0	MOD2 [NOT FITTED]
BSS138LT1	ON SEMIC. INFINEON MOSFET SOT23	2	Q1; Q2 [NOT FITTED]; Q3
C 0402	C0402 CAPACITOR TO BE DEFINED	0	C5-6 [NOT FITTED]; C19 [NOT FITTED]; C21 [NOT FITTED]
ESD9R3.3ST5G	ON-SEMI TVS 3V3 SOD-923	13	V2-14; V15 [NOT FITTED]
ITT CCM03-3003	Connettore SIM Card 4x2pin SMD	1	CN6
JST PH 2 SMD	JST CONNECTOR B2B-PH-SM4-TB	1	CN2
JUMPER 3PIN SMD	SMD MALE VERTICAL STRIP 3x1 P2.54mm	0	J1 [NOT FITTED]
LED BLUE 0603 WE	WURTH SMD BLUE LED C0603 150060BS75000	1	LED1
LED GREEN 0603 WE	WURTH SMD GREEN LED C0603 150060GS75000	1	LED2
MCP1826T-ADJE/DC	MICROCHIP ADJ 1.0A LDO REGULATOR	1	RG1
PAD1 CIRCLE	TESTPAD SIZE 0,8mm DIA SINGLE PAD	0	A1 [NOT FITTED]
PDS5100H	SCHOTTKY DIODE 5A/100V DIODES	0	D1 [NOT FITTED]
PRTR5V0U2X	PROTEZIONE PHILIPS x USB SMD	0	V1 [NOT FITTED]
R 0402	C0402 RESISTOR TO BE DEFINED	0	R2 [NOT FITTED]
SLM97CIFX8000PE	INFINEON SLM97 SOLID FLASH eUICC (I2C)	0	U3 [NOT FITTED]
SMA JACK FEMALE	CON. SMA AMPHENOL 132134	1	CN3; CN5 [NOT FITTED]

SN74AHC1G09DBVR	1xAND GATE TI O.C. SCHMITT TR. SOT23-5	1	U1
STRIP 3x1 SMD	SMD MALE VERTICAL STRIP 3x1 P2.54mm	1	CN7
STRIP SMD 6x2 R PMOD WE	WURTH 610 112 249 121 - SMD MALE STRIP 90° 6x2 P2.54mm	1	CN4
SWITCH P2.54 WE	WE 450301014042 THT P2.54 2 POS SWITCH	4	SW1-4
TXS0108EPWR	TI BI-DIR VOLTAGE LEVEL TRASLATOR TSSOP-20	1	U2
USB MICRO-AB WE	MICRO USB AB WE 629105150921	0	CN1 [NOT FITTED]
WE SMD BUTTON	WURTH 430182050816 TACT SWITCH	0	S1 [NOT FITTED]

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100N 10V X7R 0402	CAP X7R 10V SMD C0402	8 C2;C11;C13;C15; C22-23;C27-28; C29 [NOT FITTED]
100P 50V NP0 0402	SMD CERAMIC CAPACITOR NP0/COG 50V C0402	0 C20 [NOT FITTED]
100U 10V X7R 1206	SMD CERAMIC CAPACITOR X7R 10V C1206	3 C12;C14;C25
10N 6V3 X7R 0402	CAP X7R 6V3 SMD C0402	1 C3
10P 10V NP0 0402	SMD CERAMIC CAPACITOR NP0/COG 10V C0402	2 C9;C16
124K 1% 0402	SMD RESISTOR 1% C0402	1 R4
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1K 1% 0402	SMD RESISTOR 1% C0402	2 R20-21
22 1% 0402	SMD RESISTOR 1% C0402	3 R15-17
33P 10V NP0 0402	SMD CERAMIC CAPACITOR NP0/COG 10V C0402	5 C10;C17-18;C24;C26
470U 6V3 SMD	PANASONIC CAP. EEE-FTJ471XAP DIA=6.3	1 C1
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ITT CCM03-3003	Connettore SIM Card 4x2pin SMD	1 CN6
JST PH 2 SMD	JST CONNECTOR B2B-PH-SM4-TB	1 CN2
JUMPER 3PIN SMD	SMD MALE VERTICAL STRIP 3x1 P2.54mm	1 J1
LED BLUE 0603 WE	WURTH SMD BLUE LED C0603 150060BS75000	1 LED1
LED GREEN 0603 WE	WURTH SMD GREEN LED C0603 150060GS75000	1 LED2
MCP1826T-ADJE/DC	MICROCHIP ADJ 1.0A LDO REGULATOR	1 RG1
PAD1 CIRCLE	TESTPAD SIZE 0,8mm DIA SINGLE PAD	0 A1 [NOT FITTED]
PDS5100H	SCHOTTKY DIODE 5A/100V DIODES	1 D1
PRTR5V0U2X	PROTEZIONE PHILIPS x USB SMD	1 V1
SLM97CIFX8000PE	INFINEON SLM97 SOLID FLASH eUICC (I2C)	0 U3 [NOT FITTED]
SMA JACK FEMALE	CON. SMA AMPHENOL 132134	1 CN3; CN5 [NOT FITTED]
SN74AHC1G09DBVR	1xAND GATE TI O.C. SCHMITT TR. SOT23-5	1 U1
STRIP 3x1 SMD	SMD MALE VERTICAL STRIP 3x1 P2.54mm	1 CN7
STRIP SMD 6x2 R PMOD WE	WURTH 610 112 249 121 - SMD MALE STRIP 90° 6x2 P2.54mm	1 CN4
SWITCH P2.54 WE	WE 450301014042 THT P2.54 2 POS SWITCH	4 SW1-4
TXS0108EPWR	TI BI-DIR VOLTAGE LEVEL TRASLATOR TSSOP-20	1 U2
USB MICRO-AB WE	MICRO USB AB WE 629105150921	1 CN1
WE SMD BUTTON	WURTH 430182050816 TACT SWITCH	1 S1

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NOTES:

POSTITION ARDUINO\_UNO ADD ON:  
TO MOUNT SAMTECH LONG PEG THT FEMALE STRIPS. SEE RSR I066 DOCUMENTATION

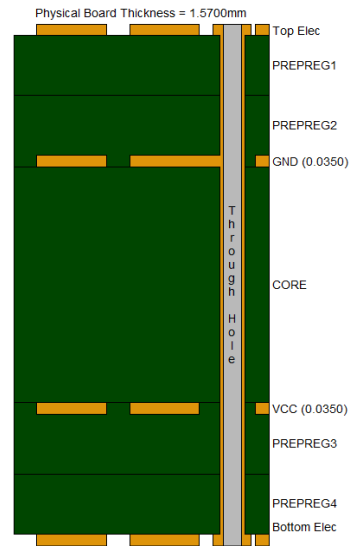
PCB FEATURES:  
PCB 4 LAYERS – 1,6mm THICKNESS – TOP AND BOTTOM WHITE SILK-SCREEN PRINTING

PCB LAYERS STACK:

TOP LAYER
GND LAYER
VCC LAYER
BOTTOM LAYER

SOLDER RESIST COLOUR: **GREEN**

PCB DIMENSIONS: 68,4mm X 53,3mm



END OF REPORT