Design Title:

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



Date: 24/10/2017 Time: 18:10

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## 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 [see notes];
			CN5 [NOT FITTED]

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

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## **RoHS COMPLIANT BOARD**

Variant: RSR1157 Rev. C - BG96 VARIANT

SMD JUMPER RESISTOR C0402 0.0402 1 R7 0 0603 **RESISTENZA PONTE SMD C0603** R9 [NOT FITTED]: R11-13 [NOT FITTED] SMD RESISTOR 1% C0402 100K 1% 0402 R6;R8;R10;R18 100N 10V X7R 0402 CAP X7R 10V SMD C0402 C2:C11:C13:C15: C22-23;C27-28; C29 [NOT FITTED] SMD CERAMIC CAPACITOR NP0/COG 50V C0402 0 C20 [NOT FITTED] 100P 50V NP0 0402 SMD CERAMIC CAPACITOR X7R 10V C1206 C12;C14;C25 100U 10V X7R 1206 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 R4 1 SMD RESISTOR 5% C0402 13K 5% 0402 2 R5:R19 SMD RESISTOR 1% C0402 15K 1% 0402 4 R1-3;R14 SMD RESISTOR 1% C0402 1K 1% 0402 2 R20-21 22 1% 0402 SMD RESISTOR 1% C0402 3 R15-17 SMD CERAMIC CAPACITOR NP0/COG 10V C0402 5 33P 10V NP0 0402 C10;C17-18;C24;C26 PANASONIC CAP. EEE-FTJ471XAP DIA=6.3 470U 6V3 SMD 1 C:1 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 SBC1 1 BC95 QUECTEL NB-IoT Module MOD1 [NOT FITTED] **BG96** QUECTEL LTE Cat.M1/NB1 AND EGPRS Module 1 MOD2 BSS138LT1 ON SEMIC. INFINEON MOSFET SOT23 3 Q1-3 C5-6 [NOT FITTED]; C 0402 C0402 CAPACITOR TO BE DEFINED C19 [NOT FITTED]; C21 [NOT FITTED] 14 V2-15 ESD9R3.3ST5G ON-SEMI TVS 3V3 SOD-923 CN<sub>6</sub> ITT CCM03-3003 Connettore SIM Card 4x2pin SMD JST PH 2 SMD JST CONNECTOR B2B-PH-SM4-TB CN<sub>2</sub> JUMPER 3PIN SMD SMD MALE VERTICAL STRIP 3x1 P2.54mm .11 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 A1 [NOT FITTED] PDS5100H SCHOTTKY DIODE 5A/100V DIODES 1 D1 PRTR5V0U2X PROTEZIONE PHILIPS x USB SMD 1 V/1 U3 [NOT FITTED] SLM97CIFX8000PE INFINEON SLM97 SOLID FLASH eUICC (I2C) SMA JACK FEMALE CON. SMA AMPHENOL 132134 CN3 [see notes]; CN5 NOT FITTED 1xAND GATE TI O.C. SCHMITT TR. SOT23-5 SN74AHC1G09DBVR U1 STRIP 3x1 SMD SMD MALE VERTICAL STRIP 3x1 P2.54mm CN7 STRIP SMD 6x2 R PMOD WE WURTH 610 112 249 121 - SMD MALE STRIP 90° 6x2 P2.54mm CN4 WE 450301014042 THT P2.54 2 POS SWITCH SW1-4 SWITCH P2.54 WE 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 S1 1

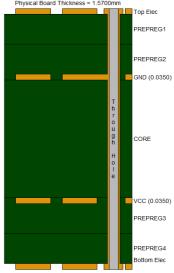
NOTES:	
POSTITION ARDUINO_UNO ADD ON: TO MOUNT SAMTECH LONG PEG THT FEMALE STRIPS. SEE RSR I 066 DOCUMENTATION	
POSITION CN3: TO PROVIDE ALSO PULSE LARSEN W1900 90° SMA PENTABAND ANTENNA	1
	Should Board Toldings of 2700cm

PCB FEATURES:

PCB 4 LAYERS – I,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