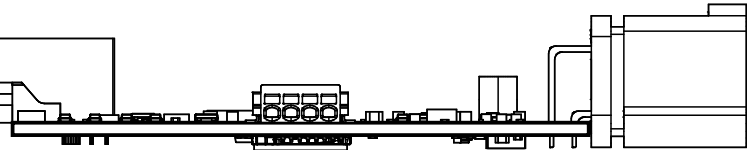
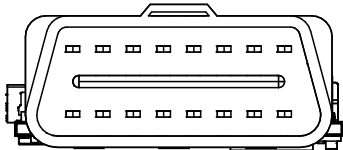


View from Back side (Scale 1:1)



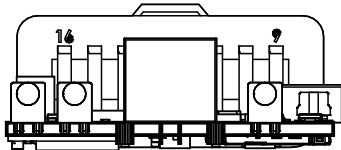
View from Left side (Scale 1:1)



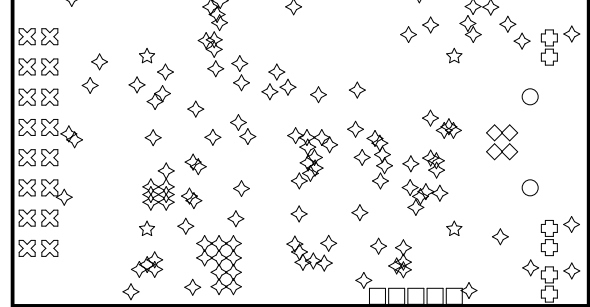
View from Front side (Scale 1:1)



View from Right side (Scale 1:1)



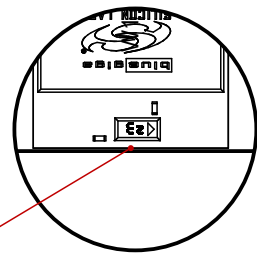
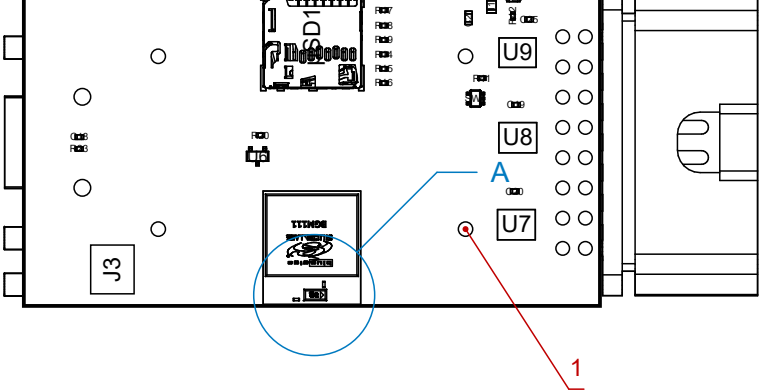
Drill Drawing View (Scale 1:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
◇	121	12.00mil	Plated	None
□	5	35.43mil	Plated	None
◇	4	39.37mil	Plated	None
⊕	6	46.00mil	Plated	None
⊗	16	78.74mil	Plated	None
☆	4	82.68mil	Plated	None
○	2	94.49mil	Plated	None
158 Total				

View from Bottom side (Scale 1:1)



DETAIL A (Scale 2:1)

Bill Of Materials

Item	Designator	Quantity
1	μSD1	1
2	ADC1	1
3	C10-C15, C17, C28	8
4	C21, C22	2
5	C1-C4, C6-C8, C16, C18-C20, C23-C25, C27	15
6	C29	1
7	C9	1
8	D3, D6-D11	7
9	D2	1
10	D1, D4	2
11	D5	1
12	H1	1
13	I1	1
14	J1	1
15	J2	1
16	J3	1
17	Q1, Q2	2
18	Q4	1
19	Q3, Q5	2
20	R1-R45, 2, 1	47
21	RGB1-RGB3	3
22	SW1	1
23	U10	1
24	U1, U2	2
25	U3	1
26	U4	1
27	U5	1
28	U6	1
29	U7, U8	2
30	U9	1
31	W1	1
32	XC1	1

Notes:

- ① M2 Mounting Screw
- ② Bluetooth antenna area. Keep Clear of metals. Plastic may not touch the antenna! See BGM111 Datasheet for more details on antenna clearance.

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Paste			Paste Mask	GTP
	Top Overlay			Legend	GTO
Surface Material	Top Solder	1.00mil	Solder Resist	Solder Mask	GTS
Copper	Top Layer	1.40mil		Signal	GTL
Prepreg		6.70mil	FR-4	Dielectric	
Copper	Signal Layer 1	0.70mil		Signal	G1
Core		47.00mil		Dielectric	
Copper	Signal Layer 2	0.70mil		Signal	G2
Prepreg		6.70mil	FR-4	Dielectric	
Copper	Bottom Layer	1.40mil		Signal	GBL
Surface Material	Bottom Solder	1.00mil	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
	Bottom Paste			Paste Mask	GBP
Total thickness: 66.60mil					

