



1. Product Outline

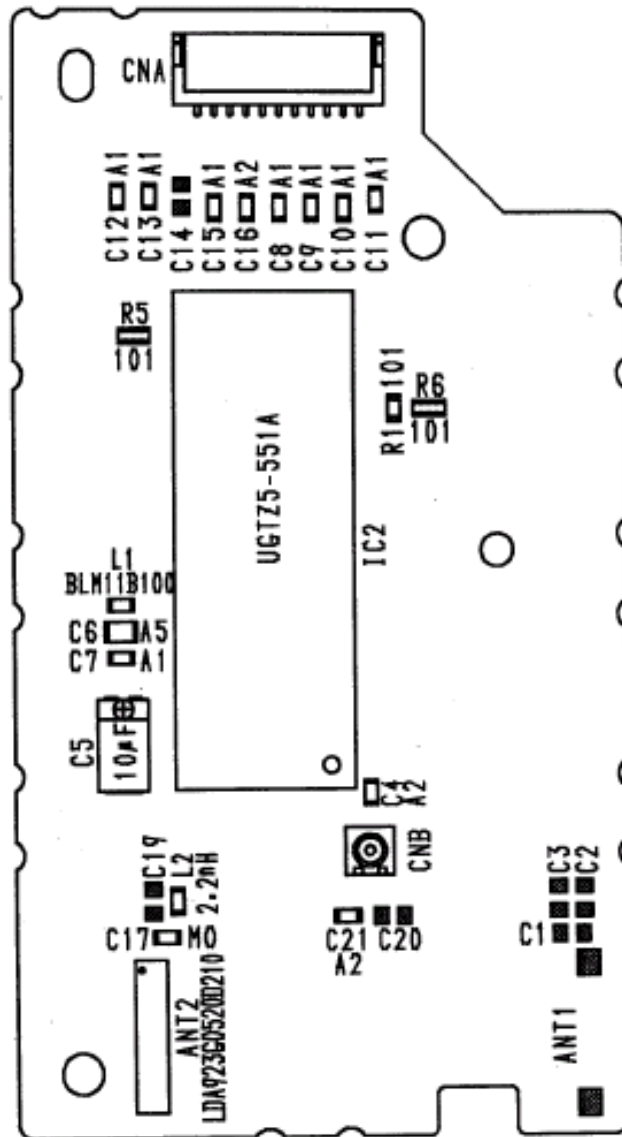
The BTA-01A is the 2.4 GHz wireless LAN transceiver module which uses frequency hopping spread spectrum technology in accordance with the Bluetooth Specification version 1.1. This product is installed only in some specified navigation systems. This product connects the navigation system with the cellular phone by radio. The navigation system enables the driver to call without holding the cellular phone by using speaker, microphone and touch sensitive panel installed in the system. This application is called "hands free".

2. Specification of Product

- | | |
|-----------------------|---------------------------|
| - Product name | : Bluetooth ASSY |
| - Standard based upon | : Bluetooth Spec. Ver.1.1 |
| - Product Type No. | : BTA-01A |
| - Frequency range | : 2402MHz to 2480MHz |
| - Output power | : 1mW (0dBm) |
| - Nominal voltage | : 3.3 ± 0.2 VDC |

4.2. Component Layout of Bluetooth ASSY

All parts are mounted in the component side and there are no parts in the solder side.



Scale : Fee

Fig. 4. Component layout (Component side)



5.4. Parts list of Bluetooth module IC

Ref. No.	Name	Specification
C2	Capacitor	Open – 0.1 μ F
C4	Capacitor	Open – 1000pF
C5	Capacitor	Open – 1000pF
C6	Capacitor	10 – 100pF
C7	Capacitor	Open – 0.1 μ F
C8	Capacitor	Open – 1000pF
C10	Capacitor	Open – 1000pF
C11	Capacitor	1000pF – 0.1 μ F
C12	Capacitor	1000pF – 0.1 μ F
C13	Capacitor	Open – 1000pF
C14	Capacitor	Open – 1000pF
C15	Capacitor	Open – 1000pF
C17	Capacitor	1 – 100pF
C18	Capacitor	1 – 100pF
C19	Capacitor	Open – 10pF
C20	Capacitor	100 – 1000pF
C21	Capacitor	1000 – 0.01 μ F
C22	Capacitor	1 – 100pF
C23	Capacitor	Open – 10pF
C24	Capacitor	Open – 10pF
C26	Capacitor	Open – 1000pF
C27	Capacitor	0.5 – 100pF
C28	Capacitor	0.5 – 10pF
C29	Capacitor	Open – 0.1 μ F
C30	Capacitor	Open – 0.1 μ F
C31	Capacitor	100pF – 0.1 μ F
C33	Capacitor	Open – 0.1 μ F
C34	Capacitor	1 – 10 μ F
C35	Capacitor	Open – 0.1 μ F
C37	Capacitor	Open – 0.1 μ F
C40	Capacitor	Open – 10pF
C51	Capacitor	Open – 1000pF
C90	Capacitor	10 – 100pF
C100	Capacitor	Open – 1000pF
C101	Capacitor	Open – 1000pF
C102	Capacitor	Open – 1000pF
C103	Capacitor	Open – 1000pF
C110	Capacitor	10 – 1000pF
C112	Capacitor	1 – 100pF
C113	Capacitor	1 – 100pF
C114	Capacitor	1 – 100pF
C115	Capacitor	Open – 10pF
C116	Capacitor	Open – 100pF



Ref. No.	Name	Specification
R1	Resistor	100 ohm – 10 kilo ohm
R3	Resistor	100 ohm – 10 kilo ohm
R8	Resistor	1 – 10 kilo ohm
R12	Resistor	1 – 100 kilo ohm
R14	Resistor	1 – 10 kilo ohm
R90	Resistor	100 ohm – 1 kilo ohm
R92	Resistor	10 – 100 kilo ohm
R93	Resistor	10 – 100 kilo ohm
R94	Resistor	100 ohm – 10 kilo ohm
R95	Resistor	100 ohm – 10 kilo ohm
R96	Resistor	10 – 100 kilo ohm
R97	Resistor	10 – 100 kilo ohm
R98	Resistor	10 – 100 kilo ohm
R101	Resistor	10 – 100 kilo ohm
R102	Resistor	10 – 100 kilo ohm
R104	Resistor	10 – 100 kilo ohm
R105	Resistor	100 ohm – 10 kilo ohm
R106	Resistor	100 ohm – 10 kilo ohm
R107	Resistor	100 ohm – 10 kilo ohm
R108	Resistor	100 ohm – 10 kilo ohm
R109	Resistor	100 ohm – 10 kilo ohm
L1	Inductor	1.0 – 3.3nH
L2	Inductor	1.0 – 3.3nH
L3	Inductor	10 – 22nH
L4	Inductor	1 – 22nH
L5	Inductor	1 – 22nH
L6	Inductor	1 – 22nH
L7	Inductor	1 – 22nH
D1	Diode	BAR64-05w
F1	BPF	MDR746F
IC1	RF IC	PMB6627XT
IC2	Baseband IC	PMB6752E
IC4	EEPROM	AT24C16N-10T-I-2.5
IC5	Flash Memory	SST39VF400A-70-4I-B3K
TR1	Transistor	2SA1576A T106S
X1	X' Tal	TSX-10A