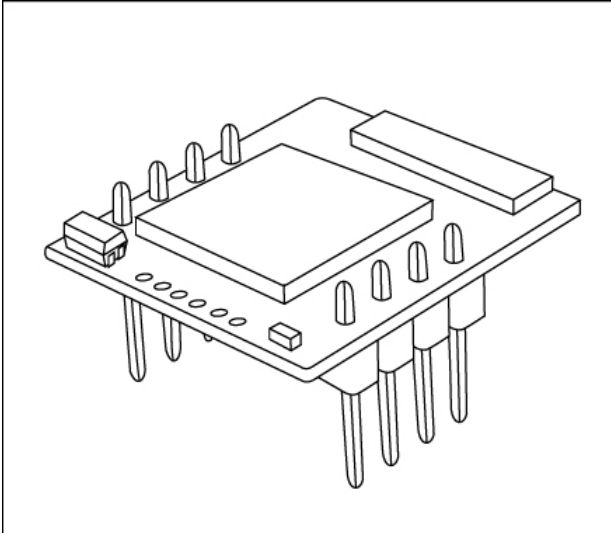


ACODE-300

Wireless Data Transceiver Module



1. Introduction

ACODE-300 is a micro-sized Bluetooth module for wireless communications. Bi-directional real-time 1:1 communication can be accomplished within 100ft of open space with transmission error of less than 1%. With an external antenna, the range of communication can be extended further. After initializing a pair of ACODE-300 modules using your PC, you can simply connect to any RS232 devices to communicate. ACODE-300 will connect automatically once its been initialized. Many applications that requires wireless solutions can make use of this ACODE-300.

- ▷ Operating Power : 3.3V
- ▷ Operating Frequency : 2.4GHz
- ▷ Baud Rate : 1200 ~ 230,400 Baud

2. Features

Output Interface UART
Compliant Bluetooth Specification v1.1
Transmission Power Class 2 (max +4dBm)
Receiving Sensitivity : -84dBm

Electrical Characteristics

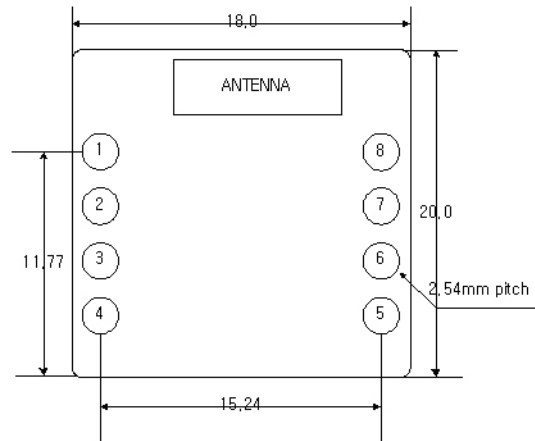
Absolute Maximum Ratings		
Ratings(Min	Max
Storage Temperature	-40°C	85°C
VDD	-0.4V	3.7V

Recommended Operating Conditions		
Operating Conditions	Min	Max
Operating Temperature Range	-20°C	70°C
VDD	3.0V	3.6V

Input/Output Terminal Characteristics				
Digital Terminals	Min	Typ	Max	Unit
Input Voltage				
VIL input logic level low (VDD=3.0V)	-0.4	-	0.8	V
VIH input logic level high	0.7VDD	-	VDD+0.4	V
Output Voltage Input				
VOL output logic level low, (IO = 4.0mA),	-	-	0.2	V
VOH output logic level high, (IO = -4.0mA),	VDD-0.2	-	-	V

3. Dimensions & Pin Layout

Size : 0.71" x 0.79" (18mm X 20mm)



Pin	Pin name	Direction	Description	Signal Level
1	GND	I	Power Ground	Ground
2	VDD	I	DC input (3.0 ~ 3.3V input)	Power
3	STATUS	O	Status (Active High)	TTL
4	/RST	I	Reset (Active Low)	TTL
5	CTS	I	UART Clear to Send	TTL
6	RTS	O	UART Ready to Send	TTL
7	TXD	O	UART data out	TTL
8	RXD	I	UART data input	TTL

4. Power Consumption

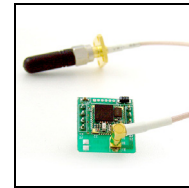
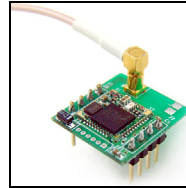
Condition	Current Consumption
If NOT connected to Host	1mA
If connected to Host	1mA
For data communications with Host only	8mA
During INQUIRY mode	48mA
For Master connection	48mA
During SCAN (page & inquiry) mode	19mA
Park mode	8mA
Non-Park mode	10mA
Data Com. (9600bps)	28mA
Data Com. (115000bps)	38mA

※ Park (Low-power) mode can be set with AT+BTLPM command.
When using park mode, you must set both ACODE-300 as park mode.

5. ACODE-300 External Antenna



<Picture> Antenna and adaptor



<Picture> External Antenna connected to ACODE

※ When attaching external antenna, please take out the internal antenna by de-soldering.

[Open Space Range]

Antenna	Range
Internal Antenna	100 ft.
External Antenna	300 ft.

6. ACODE-300 Zig Board

