

AO-1501A

AO-1501

## Features

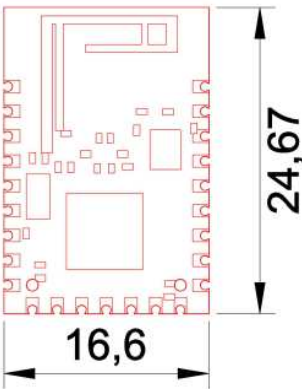
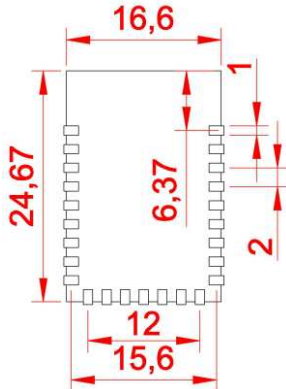
- Reliable wireless transceiver module.
- Compatible with Peer to Peer, Star, Tree, or Mesh network configurations.
- AO-1501 with on board PCB ANT with 150M range(LOS).
- AO-1501A with external ANT.

## Applications

- Wireless sensor network (WSN).
- Smart meter.
- RF remote control.
- 2.4 GHz IEEE 802.15.4 network.
- Home and building automation.
- Industrial control and surveillance.
- Set top box (STB).
- Smart energy.
- Wireless RS232 / RS485 / RS422

## Introduction

AO-1501 ZigBee Transceiver Module, which uses the latest TI CC2530 ZigBee chip, is designed for IEEE 802.15.4, ZigBee, ZigBee RF4CE, and smart energy applications. This module integrated high efficiency RF transceiver, 8051 MCU, 8 KB RAM, 32/64/128/256 KB flash memory, and other functional elements to work with various peripheral devices.

Dimension: (unit=mm)		Soldering Pad: (unit=mm)	
			

## Pin Assignment

1	GND	6	P17	11	GND	16	P02	21	P04
2	GND	7	P16	12	P13	17	P10	22	P01
3	REST	8	P15	13	P12	18	P07	23	P00
4	P22	9	P14	14	P11	19	P06	24	VDD
5	P21	10	VDD	15	P03	20	P05	25	GND

## Pre-programmed Code

Product Number	Function	Feature
AO-1503 AO-1503A	Zigbee to UART	<ol style="list-style-type: none"><li>1. Support user define baud rate 2400~115200bps,8N1.</li><li>2. Suitable for various types of M2M data transmission.</li><li>3. Compatible with Zigbee Pro 2007 protocol.</li></ol>
AO-1505 AO-1505A	Zigbee to AIDO	<ol style="list-style-type: none"><li>1. 4 analog 0~3.3V input channels, 4 digital control output channels.</li><li>2. Suitable for analog data collect and remote control.</li><li>3. Compatible with Zigbee Pro 2007 protocol.</li></ol>
AO-1506 AO-1506A	Zigbee to DIDO	<ol style="list-style-type: none"><li>1. 4 digital input channels, 4 digital control output channels.</li><li>2. Designed for digital data collect and remote control.</li><li>3. Compatible with Zigbee Pro 2007 protocol.</li></ol>
AO-1508 AO-1508A	Zigbee to SPI	<ol style="list-style-type: none"><li>1. Master / Slave mode select by an external pin.</li><li>2. Master Mode will read data from SPI device and transmit to the coordinator or write data into SPI device which is received from coordinator.</li><li>3. Slave Mode, It is purely working as a wireless transceiver device.</li><li>4. Compatible with Zigbee Pro 2007 protocol.</li></ol>