

Zigbee Adapter for IEEE 802.15.4 / ZigBee Pro Stack

High Power: 500~800 meters

(Model: ZA-HD-C, Coordinator

ZA-HD-R, Router

ZA-HD-D, Device)



Features :

- Designed for home/building automation, industrial control and monitoring, low power wireless sensor networks, PC peripherals, set-top boxes and remote controls, consumer Electronic.
- High performance and low power consumption.
- Interface: Mini USB x 1, RS-232 x 1, Digital I/O x 1 and Analog Input x 1
- Firmware: Coordinator (Mini USB), Router and Device (RS-232, Digital I/O, Analog Input), Each firmware role uses the same housing.

Applications :

- Low Power Wireless Sensor Networks.
- 2.4GHz IEEE802.15.4 systems.
- Home and commercial building automation.
- RF4CE Remote Control Systems.
- ZigBee system (256KB Flash).
- Lighting Systems.
- Industrial control and monitoring system.
- Consumer Electronics.
- Health Care.

Specifications:

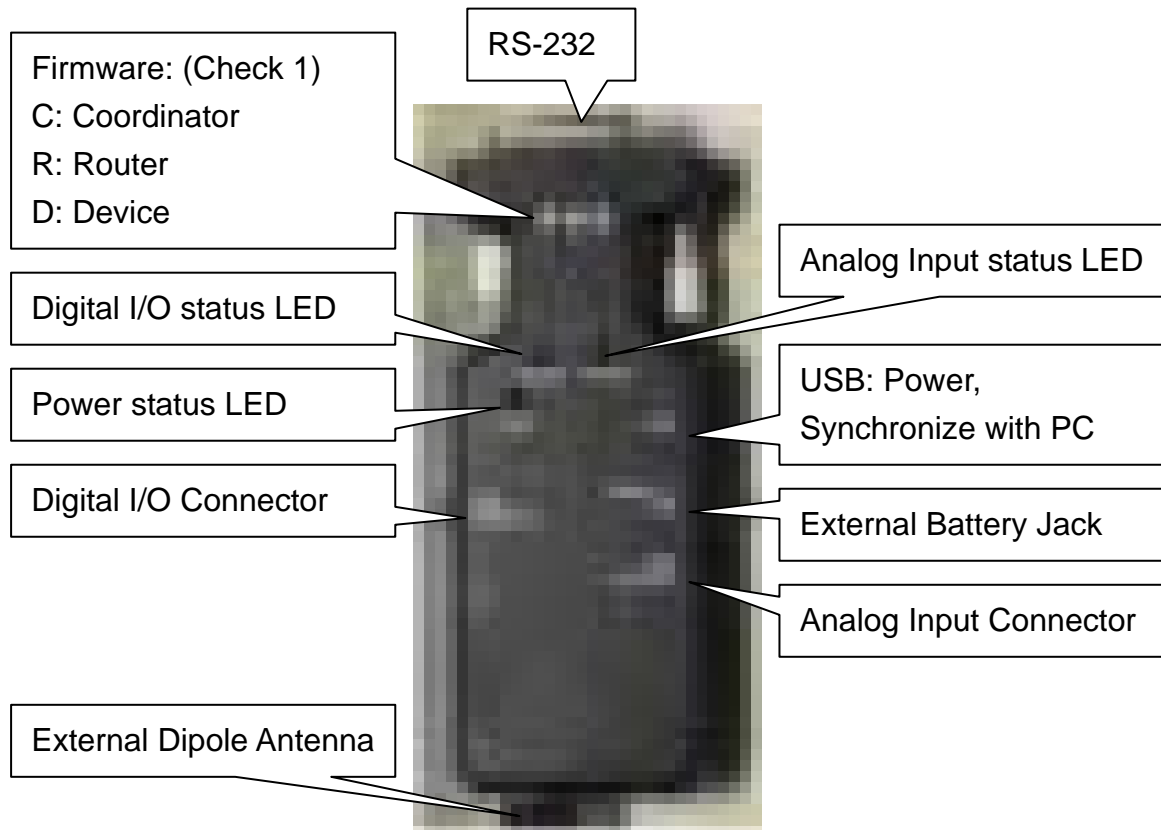
Specification	Description
Solution	TI CC 2531
Baud Rate	Supports 1.2/2.4/4.8/9.6/19.2/38.4/57.6/115.2/230.4 Kbps
Coverage	500~800 m
Connection	Point-to-Multi points
UART Interface	TxD, RxD, GND, CTS/RTS

Specification	Description
RS-232 Interface	D SUB 9-pin female
Standard	2.4 GHz IEEE 802.15.4 / ZigBee Pro Stack
Data rate	250Kbps
Data Bit	8 bit
Frequency	2.4GHz~2.5 GHz
Modulation	DSSS
Tx. Power	4.0dBm
Rx. Sensitivity	-97dBm (Nominal)
Antenna	SMA female + external dipole antenna
Antenna Impedance	50 ohm
Power Supply	+5 to +6 V DC
Current Consumption	TX: 35.5 mA @ +4.5 dBm, RX: 24 mA
Operation Temperature	-20°C to +75°C
Dimensions	35 mm (W) x 45 mm (H) x 15 mm (D)

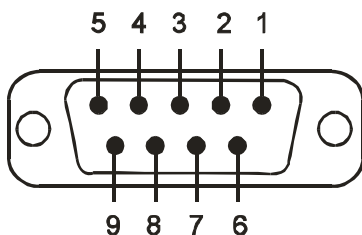
Note: All contents are subject to change without notice.

Description:

1. Profiles:



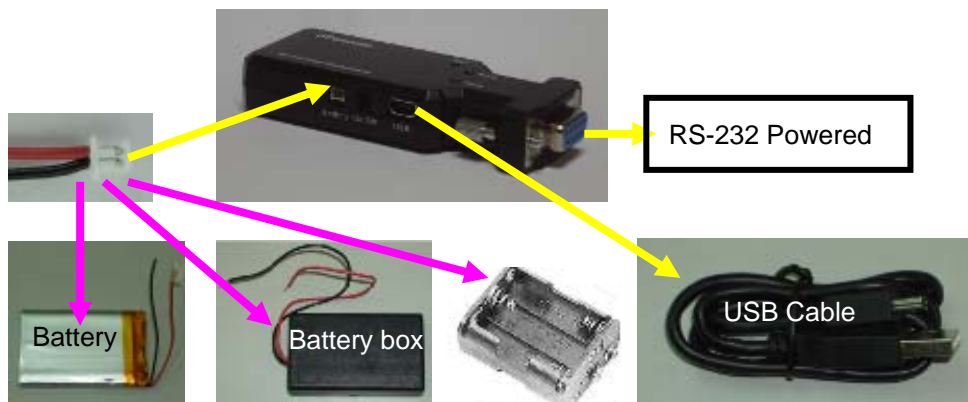
2. Pin-out:



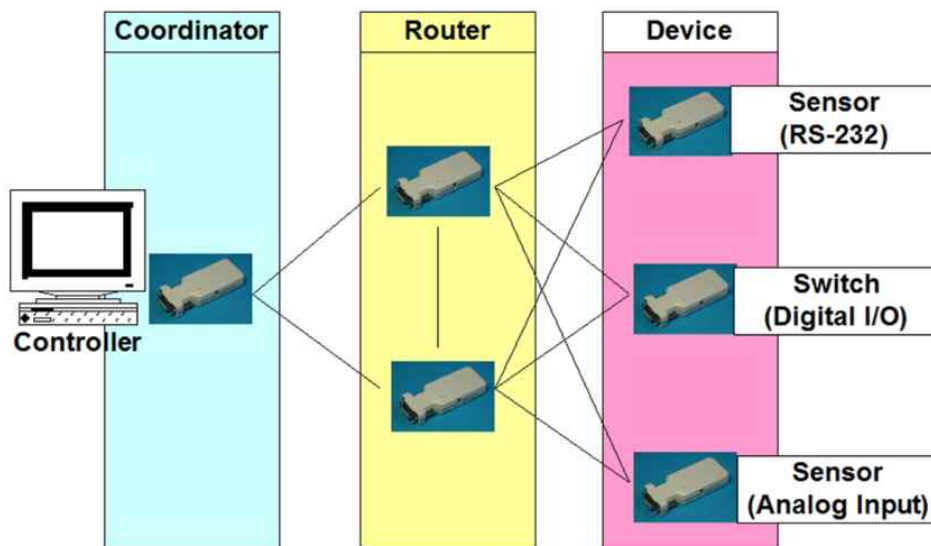
3. Pin Assignment:

Pin	Signal	DTE Direction	DCE Direction	Description
1	CD	Input	Output	Not connected
2	TxD	Output	Input	Transmitted data
3	RxD	Input	Output	Received data
4	DSR	Input	Output	Not connected
5	GND	N/A	N/A	Signal ground
6	DTR	Output	Input	Not connected
7	CTS	Input	Output	Clear to send (Remarks)
8	RTS	Output	Input	Request to send (Remarks)
9	Vcc	Input	Input	Power supply

4. Power source: (Select 1 item)



5. Applications:



Ubiquitous Connect

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