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Zigbee Network Converter

Introduction

The ZB-2550/ZB-2551 is a RS-485/RS-232 to ZigBee Network converter. It enables RS-232/RS-485 devices to be wirelessly and easily connected to a new or existing system.

The ZB-2550 is net Host and the ZB-2551 is net Slave. It also supports various data formats and Baud Rates that can be configured via a Windows-based GUI utility. The ZB-2550 and the ZB-2551 can implement an ad-hoc, star or mesh network topology.

In some existing systems that use a RS-485/RS-232 network, it is sometimes difficult to extend the new devices due to building structure issues, wiring problems or other reasons. The ZB-2550 and the ZB-2551 can be easily added to an existing system in order to extend your network.

The typical transmission range of the ZB-2550/ZB-2551 converter is 100 m, and the ZB-2550P/ZB-2551P is 700 m.

Features:

- ISM 2.4 GHz operating frequency
- Fully compliant 2.4G IEEE802.15.4 / ZigBee specifications.
- Wireless transmission range up to 100 m (Line of sight).
- GUI configuration software (Windows version).
- DIN-Rail mount.

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Specifications

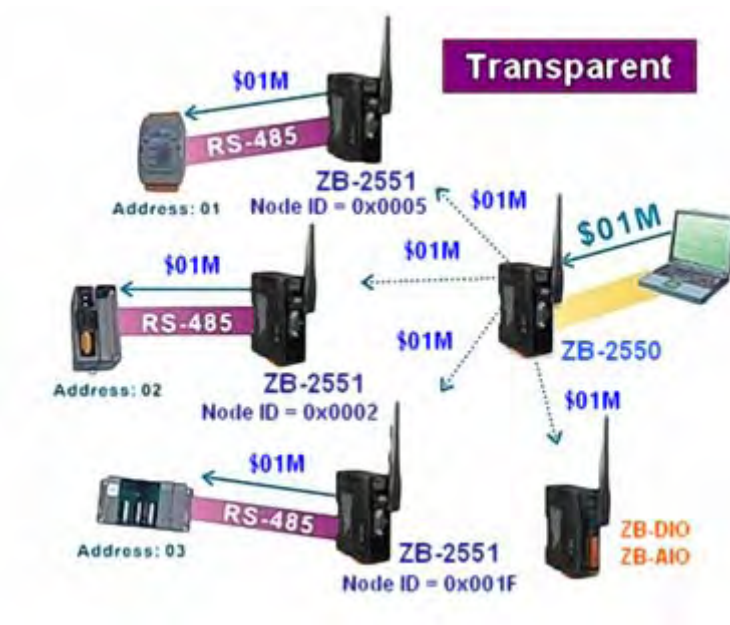
Core	
CPU	8-bit microcontroller
Communication Interface	
COM0	RS-232 (TXD, RXD and GND);D-SUB9 Female, Non-isolation
	RS-485 (D+, D-; self-tuner ASIC inside); Non-isolation
LED Indicators	Power (Red), Zigbee Rx (Yellow), Zigbee Net State (Green)
COM 0 Settings	
Baud Rate	1200~115200 bps
Data Bit	8
Parity Check	Even, Odd, None
Stop Bit	1
Power	
Protection	Power reverse polarity protection
EMS Protection	ESD,Surge, EFT
Required Supply Voltage	+10 to +30VDC
Power consumption	0.5W
Connection	5-Pin 5.08mm Removable Terminal Block
Dimensions	
Case	Plastic
Flammability	UL 94V-0 materials
Dimensions	33mm x 107mm x 78mm (W x H x D)
Installation	DIN-Rail
Operating Environment	
Operating Temperature	-25°C to +75°C
Storage Temperature	-40°C to +80°C
Relative Humidity	5% to 95% Non-condensing

ZigBee Module

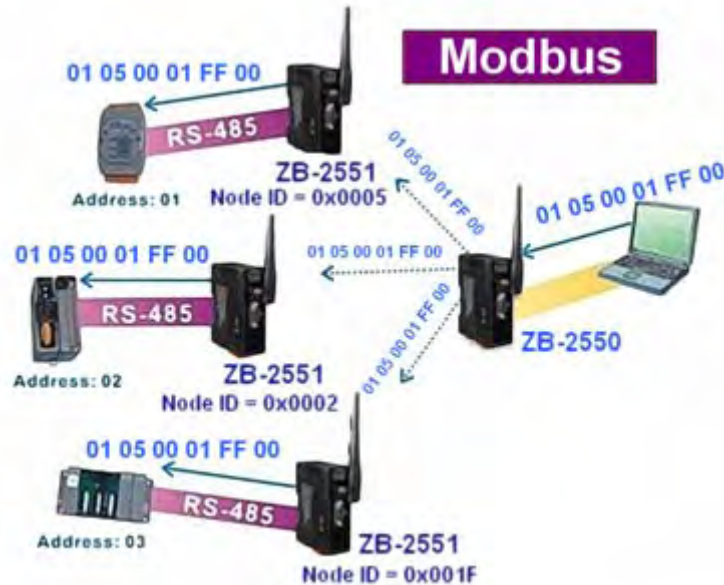
RF channels	16
Receive sensitivity	-102 dBm
Transmit power	12 dBm
Network Topology support	Star, Mesh and cluster tree
Certification	TUV(ZCP)
Antenna	2.4GHz - 3dBi Omni-Directional antenna

Applications

Transparent: (Original data will be broken down into many small data, each small data is 50 Byte)

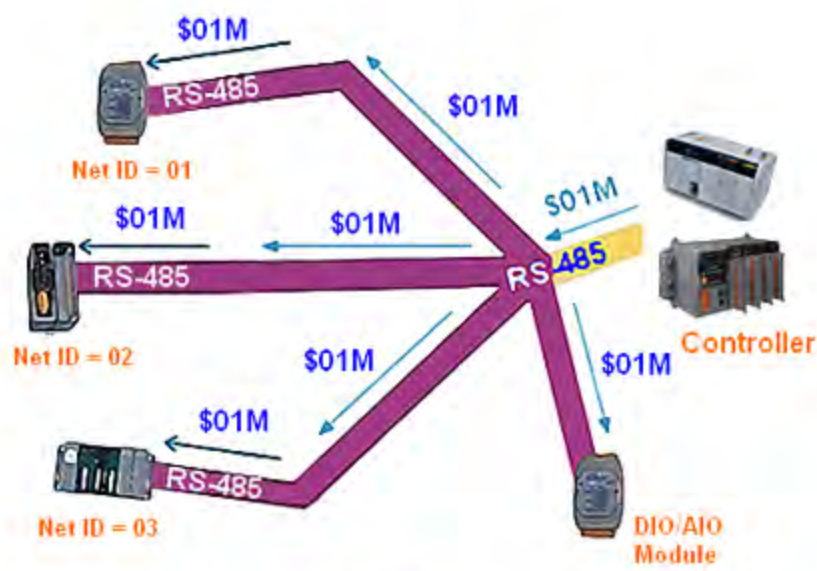


Modbus: (Original data won't be broken down into small data)



Addressable: (Original data won't be broken down into small data)





ZigBee Wireless

