

Introduction _

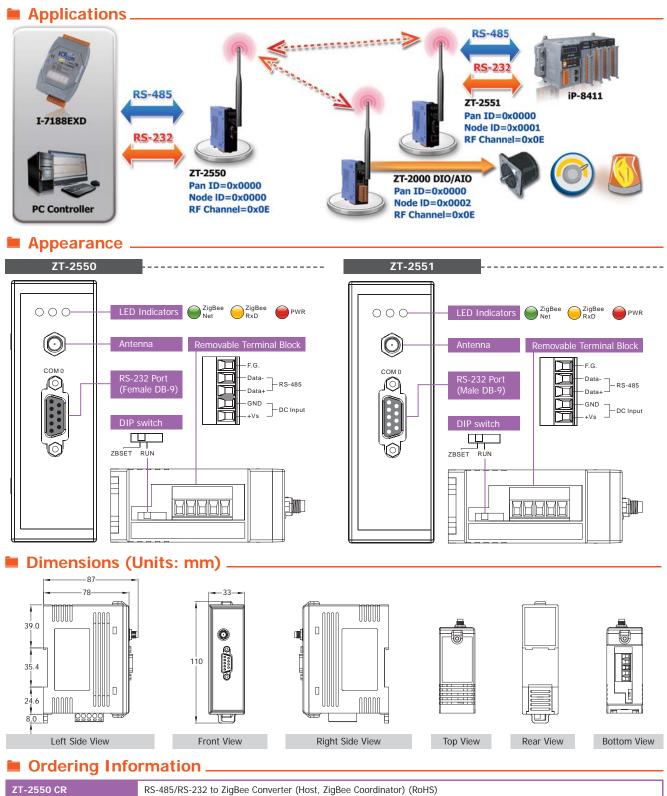
The ZT-2550 and ZT-2551 series modules are small-sized wireless ZigBee converters based on the IEEE802.15.4 standard that allow RS-232, RS-485 interface to be converted to a personal area ZigBee network. The typical transmission of ICP DAS ZT series ZigBee products is 700 meters (LOS, line of sight), with a transmission frequency range of between 2.405 GHz and 2.48 GHz, separated into 5 MHz sectors, providing 16 channels and 16384 PAN IDs. ZT-2000 series is not only a long distance wireless converter but also can act a ZigBee router to extend the transmission range and improve the quality of wireless signal. ZT-2000 series products are specification for a suite of high level communication protocols using small, low-power digital radios module, which are fitted the ZigBee 2007 (ZigBee Pro) of ZigBee Alliance. In the ZigBee network, it is only allowed one ZigBee Host and called "ZigBee coordinator", ZT-2550 series products, are used to initialize and manager the routing. In addition, One ZigBee network are able to manager 255 ZigBee router and responsible for receiving

A Windows compatible GUI configuration utility is available. The utility allows users to set different configurations based on the type of application, together with several of required ZigBee variables such as Pan ID. The friendly user interface is also helping user be familiar with ZT-2000 series.

Specifications .

or bypassing data from parent or child node.

Models		ZT-2550 (ZigBee Coordinator)	ZT-2551 (ZigBee Router)	
Hardware		'		
MCU Module		8-bit microprocessor		
Temporary Buffer Size		265 Bytes		
LED Indicators	ZigBee Net	Green		
	ZigBee RxD	Yellow		
	Power	Red		
Communicatio	n Interface			
	RS-232	RS-232 (TxD, RxD and GND);		
COM 0	K3-232	D-Sub 9 Female, Non-isolated	D-Sub 9 Male, Non-isolated	
COM 0	RS-485	RS-485 (DATA+, DATA-; internal ASIC self-tuner); Non-isolated		
	Data Format	N81, N82, O71, O81, E71, E81, S71, S81, M71, M81		
Power				
Protection		Power reverse polarity protection		
EMS Protection		ESD, Surge, EFT		
Required Supply Voltage		+10 VDC ~ +30 VDC		
Power Consumption		1 W		
Mechanical				
Casing		Plastic		
Flammability		UL 94V-0 fire-retardant materials		
Dimensions (L x W x H)		87 mm x 33 mm x 110 mm		
Installation		DIN-Rail		
Environment				
Operating Temperature		-25 ~ +75°C		
Storage Temperature		-40 ~ +80°C		
Relative Humidity		5 ~ 95% RH, Non-condensing		
Wireless				
RF Channel		16		
RF Transmit Power		11 dBm		
Antenna (2.4 GHz)		5 dBi Omni-Directional antenna		
Transmit Range (LOS)		700 m (Typical)		
Max. Slaves Supported		255		
EMI Certification		CE/FCC, FCC ID		



21-2550 CR	RS-485/RS-232 to ZigBee Converter (Host, ZigBee Coordinator) (Ro
ZT-2551 CR	RS-485/RS-232 to ZigBee Converter (Slave, ZigBee Router) (RoHS)

Accessories _____

ZT-2570 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host, ZigBee Coordinator) (RoHS)
ZT-2571 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Slave, ZigBee Router) (RoHS)
ZT-2510 CR	ZigBee Repeater (Slave, ZigBee Router) (RoHS)
ZT-2000 DIO series	Wireless digital input and digital output ZigBee I/O device
ZT-2000 AIO series	Wireless differential analog input and analog output ZigBee I/O device
External Antenna	2.4 GHz External Antenna, RP SMA Male (Plug)
Extension Cable	3S001-1, RG58A/U x Meter Long RP-SMA male to RP-SMA Female