SolarEdge Wireless Communication

ZigBee Products

SE1000-ZB02-MST / SE1000-ZB02-SLV / SE1000-ZB00-DG2-X
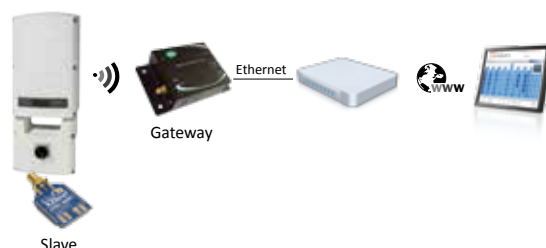
Interconnect With Ease

- Interconnects inverters wirelessly
- Connects wirelessly between an inverter and a remote internet gateway
- ZigBee unit installed within the inverter enclosure for outdoor resilience
- Replaces either RS485 or Ethernet wiring
- External antennas for long or non-line-of-sight links
- No operating costs

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Zigbee Wireless Communication Products
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① Inter-Inverter Wireless Communicatio

Slave Slave Slave Slave

Replacing RS485 inverters interconnections

② Ethernet Gateway Configuration

Ethernet

Gateway

Slave

Replacing Ethernet connection to Internet gateway

PERFORMANCE		
RF Data Rate	250	kbps
Indoor/Urban Range*	15 / 50	m / ft
Outdoor/RF Line of Sight Range*	250 / 800	m / ft
Frequency Band	2.4	GHz
Transmit Power	10 / 10	mW / dBm
Receiver Sensitivity (1% PER)	-102	dBm
Encryption	128-bit AES	
Scan Channels	15	
ZIGBEE UNIT FOR INVERTER		
Antenna	2.11" helical whip, RP-SMA connector	
Dimensions (HxWxD)	22.0 x 32.9 x 4.1 / 0.9 x 1.3 x 0.2	mm / in
Regulatory Approvals	FCC (USA), IC (Canada), ETSI (Europe), C-Tick (Australia), Telec (Japan)	
ZIGBEE GATEWAY UNIT		
Antenna	External, 4" dipole	
Port	RJ45, 10/100 Ethernet	
Power Supply	9-30	VDC
Power Consumption (Idle/In Comm.)	1.2 / 3.4	W
Operating Temperatures	-30 – 70 / -22 – 158	°C / °F
Dimensions (HxWxD)	13.9 x 7.0 x 2.9 / 5.5 x 2.7 x 1.1	cm / in
Weight	0.2 / 0.4	kg / lb
Regulatory Approvals	EN60950, CE, FCC Part 15 (Class A)	
PACKAGES		
① Inter-Inverter Communication	1 Digi XBee-Pro Coordinator module, antenna (for master inverter)	SE1000-ZB02-MST
	1 Digi XBee-Pro Router module, antenna (for slave unit(s))	SE1000-ZB02-SLV
② Ethernet Gateway	1 Digi ConnectPort X2 Gateway, 1 Digi XBee-Pro Router module, antennas	SE1000-ZB00-DG2-X
ADDITIONAL FEATURES		
Management Software	Digi Device Discovery, HTTP interface (Gateway unit)	

*Approximate numbers. Might be higher or lower depending on specific installation conditions

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