SolarEdge Wireless Communication
ZigBee Kit North America
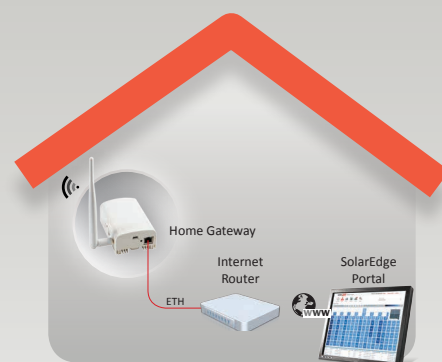
SE1000-ZBGW-K5-NA / SE1000-ZB05-SLV / SE1000-ZBRPT05-NA

5 Years Warranty • Communications •

Simple Wireless Connectivity

- Connects SolarEdge inverters wirelessly to an Internet router
- ZigBee unit installed within the inverter enclosure for outdoor resilience
- Antenna external to inverter for wider range
- Communication to Internet via Ethernet
- The home gateway supports up to 15 SolarEdge devices (e.g. inverters) on the wireless network

Inverter

Home Gateway

Internet Router

SolarEdge Portal

ETH

solar**edge**

SolarEdge Wireless Communication ZigBee Kit North America
SE1000-ZBGW-K5-NA / SE1000-ZB05-SLV / SE1000-ZBRPT05-NA

FUNCTIONAL		UNIT
Number of devices that can be monitored	1-15	
RF PERFORMANCE		
Transmit power	21.1	dBm
Receiver Sensitivity	-102	dBm
Antenna gain	5	dBi
Operating Frequency Range	2.4-2.5	GHz
Outdoor (LOS) range	400 / 1300	m / ft
Indoor range[1]	50 / 160	m / ft
HOME GATEWAY / REPEATER		
Antenna	Included	
Power supply	Included, 100-240VAC	
Operating temperature	-20 to +60 / -4 to +140	˚C / ˚F
Relative humidity (non condensing)	0 - 80	%
Ingress protection	IP20 (Indoor)	
ZIGBEE SLAVE KIT		
Antenna, mounting bracket and RF cable	Included	
Dimensions (H x W x D)	22.0 x 32.9 x 4.1 / 0.9 x 1.3 x 0.2	mm / in
Ingress protection	IP65 (IP20 / indoor rated when installed inside Control and Communication Gateway or Firefighter Gateway)	
CERTIFICATION		
Safety	IEC60950, UL60950	
EMC Approvals	FCC(USA), IC(Canada)	

[1] Approximate values, may differ depending on specific installation conditions

Scenario A: Basic Kit
Part Number: SE1000-ZBGW-K5-NA
- 1 x SolarEdge home gateway
- 1 x ZigBee slave kit
for single SolarEdge device

Inverter
Home Gateway
Master
Ethernet ETH
Internet Router
SolarEdge Portal
www
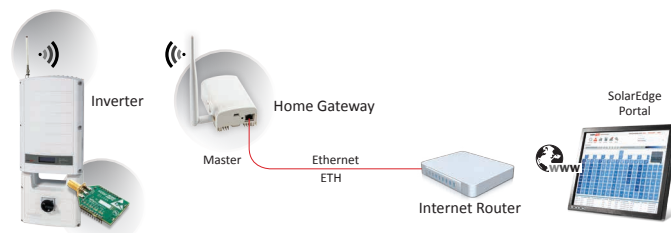
Scenario B: Adding additional slave units
Part Number: SE1000-ZB05-SLV
- 1x ZigBee slave kit
for connecting multiple devices to the same home gateway

Inverters
Slave Slave Slave
Home Gateway
Master
Ethernet ETH
Internet Router
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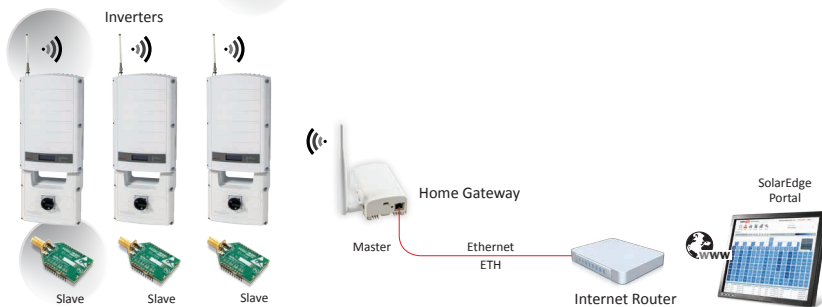
Scenario C: Extending range using a repeater
Part Number: SE1000-ZBRPT05-NA
- 1 x SolarEdge ZigBee Repeater
for extending the ZigBee range

Inverter
Slave
ZigBee Repeater (Slave)
Home Gateway (Master)
Ethernet ETH
Internet Router
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