SolarEdge Energy Net Plug-In

Wireless Mesh Network

Model: ENET

COMMUNICATIONS

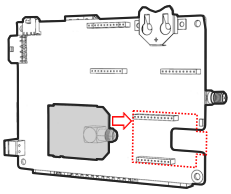
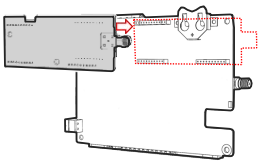
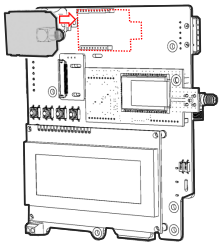


One communication platform for seamless device connection within the SolarEdge Smart Energy Management ecosystem

- Faster, easier and cleaner installations*
  - Avoids the hassle of wired infrastructure with wireless connectivity between inverter and system devices
  - Simple plug and play connection
  - Automatic device detection and configuration using SetApp
- Field-proven wireless technology
  - Mesh network topology enabling long-range transmissions
  - Robust performance in challenging environments
- Connectivity you can count on
  - Reliable communications with no single point of failure (for multiple device systems)
  - Secured telemetry with advanced device authentication and data encryption

* When compared to SolarEdge installations using wired communications

/ SolarEdge Energy Net Plug-In

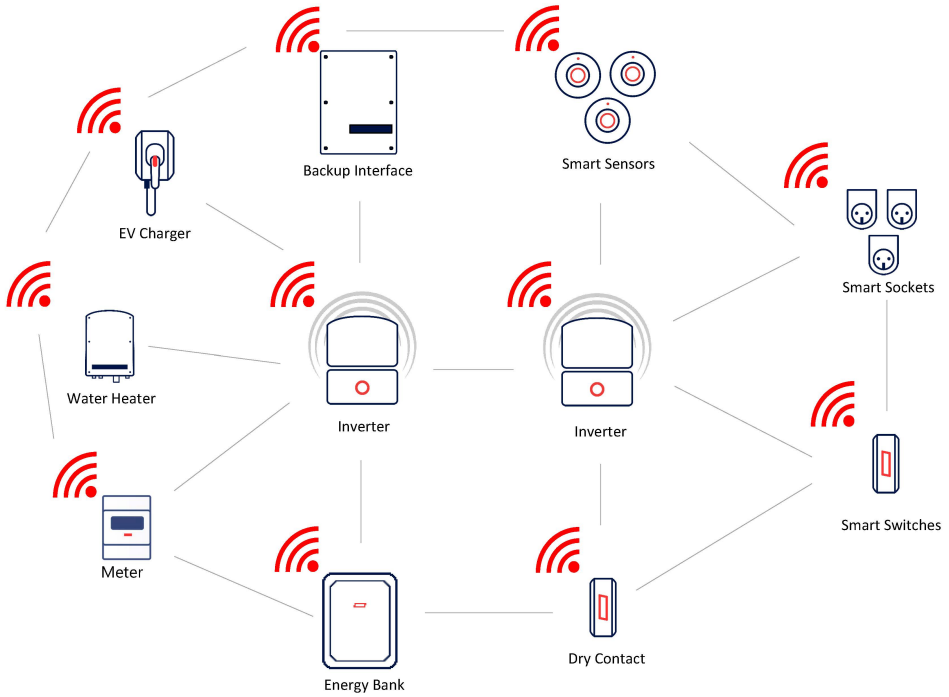
PART NUMBER		ENET-xBNP-01	ENET-xBCL-01	ENET-xBRP-01	UNIT
PERFORMANCE					
Transmit Power (Max)		17(1)			dBm
Receiver Sensitivity		-100			dBm
EIRP with Antenna		22(1)			dBm
Indoor Range (none line of sight)		50 / 160			m / ft
Frequency Band		HB 863-876, 902-930 LB 310-358, 426-445			MHz
ENVIRONMENTAL					
Operating Temperature		-40 to 185 / -40 to +85			F / °C
Storage Temperature		-40 to 185 / -40 to +85			F / °C
MECHANICAL					
Size		0.98 x 1.37 / 25 x 35	1.29 x 2.99 / 33 x 76	0.98 x 1.37 / 25 x 35	in / mm
POWER SUPPLY					
DC Voltage (nominal)		3.3			Vdc
Max Input Current		200			mA
ANTENNA					
Antenna Bands		HB 863 - 930 LB 310 - 445			MHz
Antenna Type		Outdoor			
Antenna Connector		RP-SMA			
VSWR		≤4.0			dBi
Gain		2			dB
Polarization		Vertical			
Material		PC Lexan 503R-WH5151L or WH8G952 Sabic			
Dimensions (Length x Diameter)		7.87 x 0.78 / 200 x 20			in / mm
COMPLIANCE					
US	EMC / EMI and Radio	FCC Part 15B, FCC Part 15C			
Canada	EMC / EMI	ICES-003			
	Radio	RSS-247 for SRD, RSS-102 MPE report			
Europe	EMC / EMI	CISPR 32, EN 55032, EN 55035, EN 301 489-1, EN 301 489-3			
	Radio	EN 62311 (EMF test), EN 300-220-1, EN 300-220-2			
Australia	EMC / EMI	CISPR 32 AS/NZS CISPR 32, AS/NZS 4268			
	Radio	AS/NZS 4268			
Japan	EMC / EMI	VCCI-CISPR 32			
	Radio	ARIB STD-T93, JAPAN EXTREMELY LOW POWER			
Korea	EMC / EMI and Radio	Korea RF (KN 32/35)			
Taiwan	EMC / EMI and Radio	NCC LP0002			
Compatibility		**ENET-xBNP-01** Energy Net-ready inverter with the following part number format: SE...-...BExx SE...-...BZxx SE...-...BXxx SE...-...BLxx For example: SE7K-AUBTE**BE**U4 	**ENET-xBCL-01** SetApp-enabled inverter Note: Plugs into the cellular socket. Cellular plug-in or ZigBee plug-in cannot be installed in parallel 	**ENET-xBRP-01** SetApp-enabled LCD inverter(2) Requires replacement communication board with LCD 	

(1) Transmission power / EiRP may be higher according to each country's standard requirements
(2) An Energy Net ready Communication Board with LCD is needed

SolarEdge Energy Net Plug-In

Connecting inverters to the following SolarEdge products:

- SolarEdge Energy Bank
- Inline Energy Meter
- Smart Energy Devices(3)
- EV Charger(3)



(3) Smart devices and EV charger support based on future availability

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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