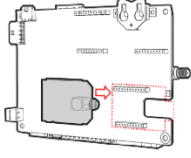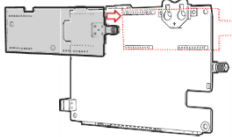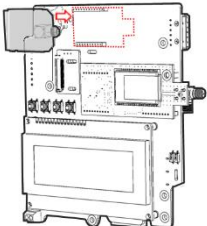# SolarEdge Home Network
Wireless Mesh Network

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

- External antenna to ensure maximum coverage

* When compared to SolarEdge installations using wired communications

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/SolarEdge Home Network Plugin

PART NUMBER		ENET-xBNP-01	ENET-xBCL-01	ENET-HBPV3D-01	UNIT
PERFORMANCE					
Transmission Power (max)		17[1]			dBm
Receiver Sensitivity		-100			dBm
Indoor Range (no line of sight)		50 / 160			m / ft
ENVIRONMENTAL					
Operating Temperature		-40 to 185 / -40 to +85			˚C / ˚F
Storage Temperature		-40 to 185 / -40 to +85			˚C / ˚F
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
COMMUNICATION					
Supported Communication Protocol		SolarEdge Home Network			
Operating Frequency Range		916 – 924 (AUS) 915 – 928 (Brazil) 863 – 870 (EU) 920 – 925 (Taiwan) 902 – 928 (US)			MHz
Modulation		O-QPSK (Quadrature Phase Shift Keying)			
EIRP with Antenna		20 (AUS) 19 (Brazil) 14 (EU) 27 (Taiwan) 20 (US)			dBm
ANTENNA[2]					
Antenna Type		Outdoor			
Antenna Connector		RP-SMA			
VSWR		≤4.0			dBi
Polarization		Vertical			
Material		PC Lexan 503R-WH5151L or WH8G952 Sabic			
Dimensions (Length x Diameter)		7.87 x 0.78 / 200 x 20			mm / in
COMPLIANCE					
Australia	EMC / EMI	CISPR 32 AS/NZS CISPR 32, AS/NZS 4268			
	Radio	AS/NZS 4268			
Brazil	Radio	Resolução N° 680 e Ato Nº 14448/2017			
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			
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			
US	EMC / EMI and Radio	FCC Part 15B, FCC Part 15C			
COMPATIBILITY					
		SolarEdge Home Network-ready inverter with the following part number format: SE...-...BExx SE...-...BZxx SE...-...BXxx SE...-...BLxx For example: SE7K-AUBTEBEU4	SetApp-enabled inverter Note: Plugs into the cellular socket. Cellular plug-in or ZigBee plug-in cannotbe installed in parallel	SetApp-enabled LCD inverter Requires replacement communication board with LCD	

(1) Transmission power may be higher according to each country's standard requirements.
(2) External antenna is provided with the SolarEdge Home Network Plug-In kit.
(3) For details about selecting the appropriate SolarEdge Home Network Plug-in kit for your inverter, see the SolarEdge Home Network Plug-in Kit Selection technical note.