



# SolarEdge Cellular GSM Kit & Data Plans

For Europe and Israel

SExxxx-xx000NGx2 / SExxxx-xx000NGx4  
SE-SIM-R12-EU-S1 / SE-SIM-R12-EU-S2



COMMUNICATION

## Cellular Internet Connectivity

- Connects SolarEdge inverters wirelessly to the Internet
- No need for Internet infrastructure at site
- Installed within the inverter enclosure for outdoor resilience
- Enables remote analysis and troubleshooting
- Supports low bandwidth configuration for reduced data usage and cost
- Can be used with SolarEdge data plan or third-party SIM card

\* For a detailed coverage map refer to the following link and select the 3G GSM option: <http://www.aeris.com/technology/aerconnect/coverage-map/#modal>



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SExxxx-xx000NGx2 / SExxxx-xx000NGx4

SE-SIM-R12-EU-S1 / SE-SIM-R12-EU-S2

	SEXXXX-XX000NGX2 / SEXXXX-XX000NGX4		UNIT
DATA PLAN	High Bandwidth Mode	Low Bandwidth Mode	
Number of Inverters Monitored with a Single GSM Kit	Up to 32	1	
Monitoring	Data sampled every 5 minutes and sent to SolarEdge server continuously*	Data sampled every 15 minutes and sent to SolarEdge server every 4 hours	
Monthly Data - per Inverter	7.8	2.6	MB
Monthly Data - per Optimizer	0.15	0.05	MB
Monthly Data - per Revenue Grade Meter	0.3	0.1	MB
Monthly Data - per Export or Consumption Meter	3	0.55	MB
Monthly Data - per Battery	3	0.7	MB
Monthly data - per Communication and Control Gateway or Firefighter Gateway	3	Not supported	MB
Compatible with 3rd party SIM card		✓	
Compatible with SolarEdge data plan	X	✓	
RF PERFORMANCE			
Operating Frequency Min.-Max. 900	Modem transmit: 880-915 / Modem receive: 925-960		MHz
Operating Frequency Min.-Max. 1800	Modem transmit: 1710-1785 / Modem receive: 1805-1880		MHz
Operating Frequency Min.-Max. 2100	Modem transmit: 1920 -1980 / Modem receive: 2110 -2170		MHz
Antenna	Included, 2dBi outdoor; Dual band antenna: 824-960MHz / 1710-2170MHz		
Maximum output power: 0.9GHz / 1.8GHz / 2.1GHz band	33 / 30 / 24		dBm
Receiver Input Sensitivity (Downlink RF level @ BER Class II < 2.4 %)	Typical -109		dBm
STANDARD COMPLIANCE			
Emissions and Radio	EN 301-489-1, EN 301-489-7, EN 301-511		
INSTALLATION SPECIFICATIONS			
Dimensions (L x W)	90.5 x 34.5 / 3.55 x 1.35		mm/in
Operating Temperature	-40 to +85 / -40 to +185		°C/°F
Mounting	Built into the inverter or installed as an upgrade kit **		
SIM CARD HOLDER			
Type	MicorSim***		

\* Up to 90MB/month of overhead per site may be observed, depending on SIM card provider

\*\* The GSM upgrade kit is available under the following part numbers: for single phase inverters SE-1PH-GSM-K1, for three phase inverters SE-3PH-GSM-K2

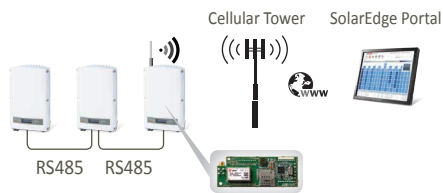
\*\*\* Non-SolarEdge SIM cards must be 3G GSM compatible. If the SIM is intended for use in Low Bandwidth mode it must have SMS capabilities

	SolarEdge Data Plans for Low Bandwidth Mode	
	SE-SIM-R12-EU-S1	SE-SIM-R12-EU-S2
Supported Systems	Residential systems: one inverter, up to 60 power optimizers, and 2 meters	Residential StorEdge systems: one inverter, up to 60 power optimizers, up to two batteries, and 2 meters
Monitoring	Data sampled every 15 minutes and sent to SolarEdge server every 4 hours (Low Bandwidth Mode)	
Number of Monitored Inverters with a Single GSM Modem Kit	1	
Plan Duration	12 year prepaid plan	

## SolarEdge GSM Offering

	GSM Inverter	GSM Upgrade Kit	Data Plan
Description	Inverter with built-in GSM cellular modem	Replacement inverter communication board with pre-installed GSM cellular modem	SIM card with data plan
Supported Systems	Single and three phase inverters	Single and three phase inverters with CPU version 3.xxxx and above	Residential and StorEdge systems
Data Plan	Data plan purchased separately	Data plan purchased separately	Data sampled every 15 minutes and uploaded every 4 hours
Part Number	SExxxx-xx000NGx2 (-20°C) / SExxxx-xx000NGx4 (-40°C)	SE-1PH-GSM-K1 (for single phase inverters) / SE-3PH-GSM-K2 (for three phase inverters)	SE-SIM-R12-EU-S1 (residential) / SE-SIM-R12-EU-S2 (StorEdge)

### High Bandwidth mode



### Low Bandwidth mode

