

Cellular Plug-in with Data Plan for the US

For Commercial Systems:

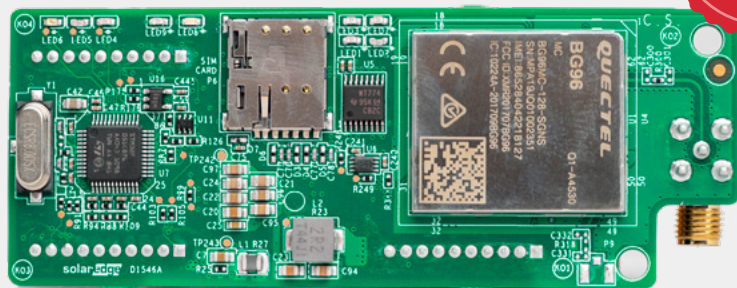
CELL-A-R05-US-S-S4

CELL-A-R05-US-S-S5

And for Residential Systems:

CELL-A-R05-US-S-S2

CELL-A-R12-US-S-S2



5/12
YEAR
WARRANTY

COMMUNICATION

Cellular Internet Connectivity for Commercial and Residential Installations

- Compatible for inverters with a display
- Connects SolarEdge inverters wirelessly to the internet
- No need for internet infrastructure at site
- Installed within the inverter enclosure for outdoor resilience, or in the communication gateway
- Supports high bandwidth monitoring of inverters, power optimizers, batteries, meters and weather stations
- Enables remote analysis and troubleshooting
- 5-year/12-year data plan is included
- Comprehensive coverage in the US

/ Cellular Plug-in with Data Plan For The US

CELL-A-R05-US-S-S2, CELL-A-R12-US-S-S2, CELL-A-R05-US-S-S4, CELL-A-R05-US-S-S5

| COMPATIBLE INVERTERS | | SExxxx-xxxxxNxxx (INVERTERS WITH A DISPLAY) | | UNIT |
|---|---|--|--|---------|
| Coverage ⁽¹⁾ | Refer to the following link and select the CAT M1 option: https://www.solaredge.com/index.php/us/products/communication/cellular-communication-options#/ | | | |
| Monitoring | Continuous connection with 5 minute telemetry from all connected inverters | | | |
| Supported Residential Systems (CELL-A-R05-US-S-S2/ CELL-A-R12-US-S-S2) | Residential systems: 1 inverter, up to 45 power optimizers, and 1 meter Residential StorEdge systems: 1 inverter connected, up to 30 power optimizers, 2 batteries and 1 meter | | | |
| Supported Power of Commercial Systems | Up to 200 (for CELL-A-R05-US-S-S4) | Up to 1000 (for CELL-A-R05-US-S-S5) | | kW AC |
| Number of Monitored Inverters with a single Cellular Plug-in | Commercial: Up to 32 inverters, limited by the system AC size ⁽²⁾ Residential: 1 inverter | | | |
| Data Plan Duration | 5 or 12 years prepaid plan (depends on R05 or R12 part numbers respectively) | | | |
| RF PERFORMANCE | | Operating Frequency | | |
| LTE Cat M1 FDD | Freq (MHz) / Band | Modem Transmit / Receive | | |
| | 2100 (B1) | 1920-1980 / 2110-2170 | | MHz |
| | 1900 (B2) | 1850-1910 / 1930-1990 | | MHz |
| | 1800 (B3) | 1710-1785 / 1805-1880 | | MHz |
| | 1700 (B4) | 1710-1755 / 2110-2155 | | MHz |
| | 850 (B5) | 824-849 / 869-894 | | MHz |
| | 900 (B8) | 880-915 / 925-960 | | MHz |
| | 700 (B12) | 699-716 / 729-746 | | MHz |
| | 700 (B13) | 777-787 / 746-756 | | MHz |
| | 850 (B18) | 815-830 / 860-875 | | MHz |
| | 850 (B19) | 830-845 / 875-890 | | MHz |
| | 800 (B20) | 832-862 / 791-821 | | MHz |
| | 1900 (B25) | 1850-1915 / 1930-1995 | | MHz |
| | 850 (B26) | 814-849 / 859-894 | | MHz |
| | 700 (B28) | 703-748 / 758-803 | | MHz |
| LTE Cat M1 TDD | 1900 (B39) | 1880 / 1920 | | MHz |
| Maximum transmit power | 23 | | | dBm |
| Receiver Input Sensitivity Cat M1, 1.4 MHz Bandwidth, CE Mode A | -107 | | | dBm |
| LTE Cat-M1 bandwidth | 1.4 | | | MHz |
| LTE Cat-M1 modulation | Downlink: OFDMA, 16 QAM Uplink: SC-FDMA, 16 QAM | | | |
| ANTENNA | | | | |
| Dual Antenna Bands | 824-960 | 1710-2170 | | MHz |
| Antenna Type | Outdoor | | | |
| Antenna Connector | RP-SMA or N plug ⁽³⁾ | | | |
| VSWR | ≤4.0 | | | |
| Gain | 2 | | | dBi |
| Polarization | Vertical | | | |
| Material | PC Lexan 503R-WH5151L or WH8G952 Sabic | | | |
| Dimensions (Length x Diameter) | 7.87 x 0.78 / 200 x 20 | | | in / mm |
| STANDARD COMPLIANCE | | | | |
| EMC and Radio | FCC parts 15, 22, 24 class B; Industry Canada (IC): ICS-003, RSS-102 | | | |
| Safety | cUL, UL60950 | | | |
| RoHS | Yes | | | |
| INSTALLATION SPECIFICATIONS | | | | |
| Dimensions (L x W x H) | 3.56 x 1.35 x 0.55 / 90.54 x 34.5 x 14.2 | | | in / mm |
| Operating Temperature | -40 to +85 / -40 to +185 | | | °C / °F |
| Mounting | Built into the inverter or purchased separately | | | |
| Power consumption | 1000 (@ 23 dBm output power) | | | mW |
| SIM CARD HOLDER | | | | |
| Type | Nano Sim | | | |

(1) Available only in the US. For 12 year data plans - in the event that third party cellular technology currently used by SolarEdge (LTE Cat-M1) is phased out or becomes otherwise unavailable, SolarEdge shall ship replacement parts such as modem and/or SIM card of a prevailing technology. Upon such replacement, the new prevailing hardware shall continue to be covered for the remainder of the original data plan duration. Customer is responsible for verifying that the region of installation is covered by the LTE Cat-M1 network prior to any installation by accessing: <https://www.solaredge.com/index.php/us/products/communication/cellular-communication-options#/>. SolarEdge shall not be responsible or liable for unavailability or discontinuance of network coverage in a specific area or region or any network downtime

(2) For larger systems, use multiple cellular plug-ins

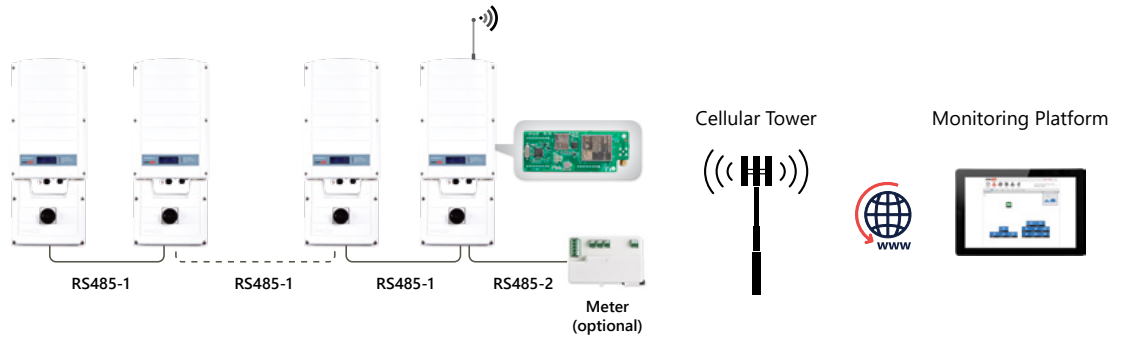
(3) Two types of antennas may be supplied interchangeably

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For The US

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Single or Multiple Commercial Inverters



Single or Multiple Residential Inverters

