Mobile Connect CELLMODEM-07

Mobile Connect CELLMODEM-07 provides seamless high-speed cellular connectivity to Enphase Energy System, enabling easy monitoring and management. Mobile Connect CELLMODEM-07 also incorporates multiple network options, increasing the reliability of the network connection.

IQ Gateway Standard
The IQ Gateway Standard provides basic PV production monitoring (±5%) via PLC platform for energy management. It integrates with the IQ Microinverters to provide complete control and insights into the Enphase Energy System.

IQ Gateway Metered
The IQ Gateway Metered provides integrated PV and consumption metering. It integrates with the IQ Microinverters and IQ Batteries to provide complete control and insight into the Enphase Energy System.

Performance

- Enables high-speed connectivity to Enphase Energy System

Flexible

- Compatible with a wide range of Enphase products*.
- Designed for installation inside an IP54 or equivalent rated box for both indoor and outdoor use
- Can be mounted in both horizontal and vertical orientations

Reliable

- Incorporates multiple carrier options and automatically selects the best carrier for a site
- Five-year warranty

* Compatible products listed in Supported IQ Gateways and IQ System Controller section.
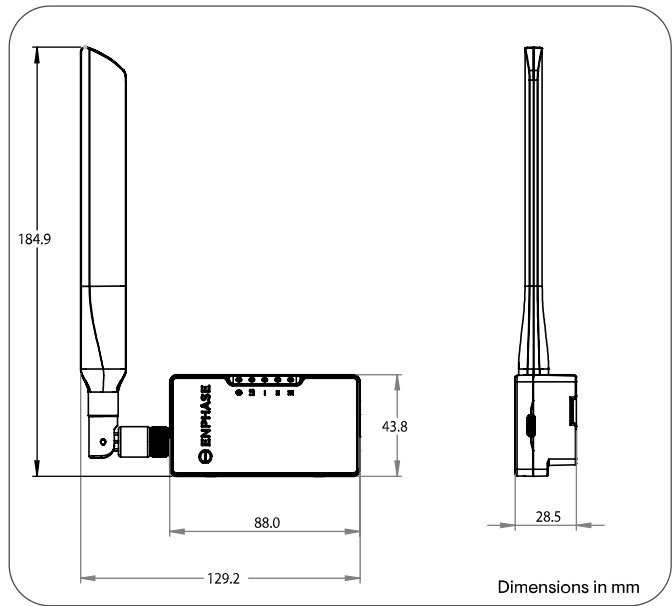
Mobile Connect

MODEL NUMBERS

Mobile Connect	This compact, rugged modem provides low-power, long-range cellular connection for fixed-location indoor and outdoor solar installations. This plug-and-play industrial-grade cellular modem supports systems with a large number of microinverters.
CELLMODEM-07-INT-05	Modem with a five-year data plan is available for Austria, Australia, Belgium, France, Germany, India, Italy, The Netherlands, Poland, South Africa, Switzerland and the United Kingdom.

WHAT IS IN THE BOX

Cell modem	USB-type cell modem
USB cable	USB 2.0 Type-A to Type-C cable
Zip ties	Two zip ties to hold the cell modem in place, if needed
Mount	DIN rail mount with screws
Installation guide	Installation guide

POWER REQUIREMENTS

Supply voltage	5 V

GENERAL

Equipment category	LTE CAT 4
Frequency bands supported CELLMODEM-07-INT-05	FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66 TDD:B34/B38/B39/B40/B41
Data plan duration	5-year pre-paid plan

SUPPORTED SYSTEMS

PV systems	Primary internet connection for residential/commerical PV systems with up to 96 microinverters[1,2].
Battery systems	Secondary internet connection for IQ Battery systems i.e. a broadband Wi-Fi or Ethernet connection is required as a primary internet connection. Can also act as a primary internet connection by purchasing a suitable data extension plan[2].

CONNECTORS

RF	SMA RF
Data	USB Type-C Rev 2.0

MECHANICAL DATA

Dimensions (W × H × D)	88 mm × 43.8 mm × 28.5 mm (without antenna)
Weight	100 g
Chassis type	Plastic
Operating temperature	-40°C to 65°C
Storage temperature	-40°C to 65°C
Humidity	Relative humidity 15% to 93%
Environmental rating	Install the Mobile Connect cellular modem in a IP54-rated enclosure for outdoor installations
Altitude	Up to 3000 m

COMPLIANCE

Regulatory	FCC Class B (US), IC (Canada), IFT (Mexico), RCM (Australia), R-NZ (New Zealand), CE (EU), UKCA (UK), ICASA (South Africa)
Safety	UL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1-14, ROHS, REACH, RED
Network	PTCRB, AT&T, T-Mobile

WARRANTY

Duration	Five years on the hardware

SUPPORTED IQ GATEWAYS AND IQ SYSTEM CONTROLLER

- IQ Gateway Standard (ENV-S-WM-230, ENV-S-WB-230)
- IQ Gateway Metered (ENV-S-EM-230)
- IQ System Controller 3 INT (SC100G-M230ROW, SC100G-M230INT)

[1] A suitable add on pack must be purchased to enable support for systems with more than 96 microinverters.

[2] Available only in select countries and for select configurations. Visit the device home page for details.

Dimensions

184.9

43.8

88.0

129.2

28.5

Dimensions in mm

Revision history

REVISION	DATE	DESCRIPTION
DSH-00566-1.0	September 2024	Preliminary release.