Enphase Mobile Connect Cell Modem

The Enphase Mobile Connect Cellular Modem

delivers easy, reliable networking for Enphase Energy Systems - with multiple carrier options.



Smart

 Enables web-based monitoring and control

Flexible

• Multiple network options to choose from for the best coverage for the location.

Reliable

- · Designed for indoor or outdoor¹ installation
- Five-year warranty

1. Inside a suitably rated enclosure.





Enphase Mobile Connect Cell Modem

which operator provides the best coverage in your area?. • CELLMODEM-M1-06-SP-054 Modem with a 5 year Sprint (T-Mobile) data plan. Available in US, Canada, Puerto Rico, and the US Virgin Islands ^a • CELLMODEM-M1-06-AT-05 Modem with a 5 year AT&T data plan. Available in US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, Australia, New Zealand, France, UK, Netherlands, Germany, Austria, Belgium Switzerland, Spain, Portugal, Italy, Poland GENERAL TE CAT M1,EGPRS Frequency band (MHz) LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE-TDD: B39 (Cat M1 Only) EGPRS: 850/900/1800/1900MHz Packet data ^a Cat M1: Max. 375Kbps (DL) / 375Kbps(UL) SMS Text and PDU mode, point to point M0 and MT, SMS cell broadcast POWER REQUIREMENTS USB Powered - 5V RF antenna 50 ohm SMT customized flex antenna SIM Micro SIM (3FF); 1.8V USB Type A USB	MODEL NUMBERS	
• CELLMODEM-M1-06-AT-05 Modern with a Syear AT&T data plan. Available in US, Canada, Mexico, Puerto Rico, and He US Virgin Islands, Australia, New Zealand, France, UK, Netherlands, Germany, Austria, Belgium Switzerland, Spain, Portugal, Italy, Poland GENERAL Enformance LTE CAT MLEOPRS Frequency band (MHz) LTE F-DD: 139 (2rd M1 Only) EDPRS/98/B12/B13/B18/B19/B20/B22/B25/B26/B28 LTE-TDD: 393 (Cat M1 Only) EDPRS: 850/900/1800/1900/MHz Packet data ¹ Cat MT. MX. 375Kbps(UL) SMS Text and PDU mode, point to point MO and MT, SMS cell broadcast POWER REQUIREMENTS Cot MT. MX. 375Kbps(UL) Voltage USB Powered - 5V CONNECTORS Cot MT. SUST Constantiation of the antenna SIM Micro SIM (3FF): 1.8V USB Type A USB MetchANICAL DATA 100 grams (approximate) Ochassis (type Plastic Operating temperature -40°C to +65°C Storage temperature -40°C to +65°C Vironomental rating If installed outdoors, install Enphase Mobile Connect cell modern in NEMA 3R or IP54 rated enclosure. COMPLIANCE Environmental rating If installed outdoors, install Enphase Mobile Connect cell modern in NEMA 3R or IP54 rated enclosure. Environmental rating IC Canada) IFT (Mexico)	Enphase Mobile Connect Cell Modem	location indoor and outdoor solar installations. This plug and play industrial grade cellular modem supports systems of up to 60 micro inverters. Select from the below models based on
US Virgin Islanda, Australia, New Zealand, France, UK, Netherlanda, Germany, Austria, Belgium Switzerland, Spain, Portugal, Italy, Poland GENERAL Performance LTE CAT MLEOPRS Frequency band (MHz) LTE-FDD: B39 (Cat M1 Only) ECPRS: 850/900/1800/1900/MLz Packet data* Cat M1: Max. 375Kbps (DL) (J 375Kbps(UL) SMS Text and PDU mode, point to point M0 and MT, SMS cell broadcast POWER REQUIREMENTS Voltage Voltage USB Powered - SV CONNECTORS Text and PDU mode, point to point M0 and MT, SMS cell broadcast Pimesions (LXWH) Micro SIM (3FF); 1.8V USB Type A USB MECHANICAL DATA Dimensions (LXWH) Pilastic Operating temperature -00°C to 455°C Storage temperature Storage temperature -40°C to 455°C Humidity Relative humidity 15% to 93% Environmental rating If installed outdors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure. COMPLIANCE UCGasaB (US) IC (Ganada) IT (Mexico) RCM (Australia) RNZ (New Zealand) CE and RED (EU) Safety UL-62368-1; EC/FN 62368-1; 2014, CSA C22.2 No. 62368-1:4 SUPPORTED COMBINER AND IQ GATEWAY MODEL YIQ-AM1:240-3C, X-IQ-AM1:240-3C, X-IQ-AM1:240-3C,	- CELLMODEM-M1-06-SP-05 ⁴	Modem with a 5 year Sprint (T-Mobile) data plan. Available in US, Canada, Puerto Rico, and the US Virgin Islands³
Performance LTE CAT M1,EGPRS Frequency band (MHz) LTE-FDD: B1/R2/R3/B4/B5/B8/B1/B13/B13/B13/B13/B12/B25/B26/B28 LTE-FDD: B39 (Cat M1 in Only) EGPRS: 850/900/1800/1900MHz Packet data ³ Cat M1: Max. 375Kbps (DL) / 375Kbps(UL) SMS Text and PDU mode, point to point MO and MT, SMS cell broadcast POWER REGUIREMENTS Voltage USB Powered - 5V CONNECTORS RF antenna 50 ohm SMT customized flex antenna SIM Micro SIM (3FF): 1.8V USB Type A USB MECHANICAL DATA Dimensions (LWXH) 91 mm x 60 mm x 15 mm Weight 100 grams (approximate) 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 If installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure. COMPLIANCE Regulatory UL-62368-1, IEC/EN 62368-1, 2014, CSA C22.2 NO. 62368-1-14 Network PTCR, ATL 240-3C, X-IQ-AM1-240-3C, X-IQ-AM1-240-4C	- CELLMODEM-M1-06-AT-05	US Virgin Islands, Australia, New Zealand, France, UK, Netherlands, Germany, Austria, Belgium,
Frequency band (MHz)LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE-TDD: B39 (Cat M1 Only) LTE-TDD: B39 (Cat M1 Only) LTE-TDD: B39 (Cat M1 Only) LTE-TDD: B39 (Cat M1 Only) Text and PDU mode, point to point M0 and MT, SMS cell broadcastPacket data³Cat M1: Max. 375Kbps (DL) / 375Kbps(UL)SMSText and PDU mode, point to point M0 and MT, SMS cell broadcastPOWER EQUIREMENTSUseVoltageUSB Powered - 5VCONNECTORSImage: SMS (M3 GF); 1.8VRF antenna50 ohm SMT customized flex antennaSIMMicro SIM (3FF); 1.8VUSBOut on grams (approximate)Out and the matrix of M3 GF)1.8VOperating temperature40°C to 465°CObrage temperature-40°C to 465°COut on dot out out out out out out out out out o	GENERAL	
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SMS Text and PDU mode, point to point MO and MT, SMS cell broadcast POWER REQUIREMENTS USB Powered - 5V CONECTORS E RF antenna 50 ohm SMT customized flex antenna SIM Micro SIM (3FF); 1.8V USB Type A USB MECHANICAL DATA Dimensions (LxWxH) 91 mm x 60 mm x 15 mm Weight 0.0perating temperature -40°C to +65°C Storage temperature -40°C to +65°C Storage temperature -40°C to +65°C Storage temperature -40°C to +65°C Reative humidity 15% to 93% Environmental rating Environmental rating If installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure. COMPLIANCE Regulatory Regulatory FCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) RCM (Australia) RCM (Aust	Frequency band (MHz)	LTE-TDD: B39 (Cat M1 Only)
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VoltageUSB Powered - 5VCONNECTORSRF antenna50 ohm SMT customized flex antennaSIMMicro SIM (3FF); 1.8VUSBType A USBMECHANICAL DATADimensions (LxWxH)91 mm x 60 mm x 15 mmWeight100 grams (approximate)Chassis typePlasticOperating temperature-40°C to +65°CStorage temperature-40°C to +65°CStorage temperature-40°C to +65°CStorage temperature-40°C to +65°CBurvironmental ratingIf installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure.COMPLIANCEFCC Class B (US) IC (Canada) IFT (Mexico) R NZ(New Zealand) CE and RED (EU)SafetyUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1:14 PTCRB, AT8T, Sprint (T-Mobile)SupPORTED COMBINER AND IQ GATEWAY MODELX-IQ-AM1:240-8, X-IQ-AM1:240-3, X-IQ-AM1:240-3, X-IQ-AM1:240-3, X-IQ-AM1:240-3, X-IQ-AM1:240-3, X-IQ-AM1:240-4, X-IQ-AM1:240-	SMS	Text and PDU mode, point to point MO and MT, SMS cell broadcast
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Image: Micro SIM (3FF); 1.8V USB Type A USB MECHANICAL DATA 91 mm x 60 mm x 15 mm Dimensions (LxWxH) 91 mm x 60 mm x 15 mm Weight 100 grams (approximate) 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 fl installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure. COMPLIANCE IC (Canada) IFT (Mexico) RCM(Australia) Regulatory FCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) REHO (EU) Safety UL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1:44 Network PTCRB, AT&T, Sprint (T-Mobile) SUPPORTED COMBINER AND IQ GATEWAY MODEL YI-240-3C-ES, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C IQ Combiner Models X-IQ-AM1-240-3C-ES, X-IQ-AM1-240-4C	CONNECTORS	
USBType A USBMECHANICAL DATADimensions (LxWxH)91 mm x 60 mm x 15 mmWeight100 grams (approximate)Chassis typePlasticOperating temperature-40°C to 465°CStorage temperature-40°C to 465°CHumidityRelative humidity 15% to 93%Environmental ratingIf installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure.COMPLIANCEFCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) R-NZ(New Zealand) CE and RED (EU)SafetyUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1:14NetworkPTCRB, AT&T, Sprint (T-Mobile)SUPPORTED COMBINER AND IQ GATEWAY MODELX-IQ-AM1-240-8, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C, X-IQ-AM1-240-3C	RF antenna	50 ohm SMT customized flex antenna
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Dimensions (LxWxH)91 mm x 60 mm x 15 mmWeight100 grams (approximate)Chassis typePlasticOperating temperature-40°C to +65°CStorage temperature-40°C to +65°CHumidityRelative humidity 15% to 93%Environmental ratingIf installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure.COMPLIANCEFCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) RFX2 (New Zealand) CE and RED (EU)SafetyUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1:14NetworkPTCRB, AT&T, Sprint (T-Mobile)SUPPORTED COMBINER AND IQ GATEWAY MODELLX-IQ-AM1-240-8, X-IQ-AM1-240-3, X-IQ-AM1-240-3, X-IQ-AM1-240-3, X-IQ-AM1-240-3, X-IQ-AM1-240-3, X-IQ-AM1-240-4, X-IQ-AM	USB	Type A USB
Weight100 grams (approximate)Chassis typePlasticOperating temperature-40°C to +65°CStorage temperature-40°C to +65°CHumidityRelative humidity 15% to 93%Environmental ratingIf installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosureCOMPLIANCEFCC Class B (US) C (Canada) FC (Canada) R-NZ(New Zealand) CE and RED (EU)SafetyUL 62368-1.1EC/EN 62368-1:2014, CSA C22.2 NO. 62368-1:14 NetworkSupPortED COMBINER AND IQ GATEWAY MODELTCRB, AT&T, Sprint (T-Mobile)IQ Combiner ModelsX1Q-AM1-240-B, X-Q-AM1-240-3, X-IQ-AM1-240-3C, X-IQ-AM1-240-3-ES, X-IQ-AM1-240-4, X-IQ-AM1-2	MECHANICAL DATA	
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Operating temperature-40°C to +65°CStorage temperature-40°C to +65°CHumidityRelative humidity 15% to 93%Environmental ratingfinstalled outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure.COMPLIANCEFCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) NRX(New Zealand) CE and RED (EU)SafetyUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1:14 PTCRB, AT&T, Sprint (T-Mobile)SupPortED COMBINER AND IQ GATEWAY MODELVI-0-AM1-240-2, X-IQ-AM1-240-3, X-IQ-AM1-240-3C, X-IQ-AM1-240-3ES, X-IQ-AM1-240-3C-ES, X-IQ-AM1-240-4Q, X-IQ-AM1-240-4Q	Weight	100 grams (approximate)
Storage temperature -40°C to +65°C Humidity Relative humidity 15% to 93% Environmental rating If installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure. COMPLIANCE FCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) R-NZ(New Zealand) CE and RED (EU) Safety UL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1:44 Network PTCRB, AT&T, Sprint (T-Mobile) SUPPORTED COMBINER AND IQ GATEWAY MODEL X-IQ-AM1-240-B, X-IQ-AM1-240-3, X-IQ-AM1-240-3C, X-IQ-AM1-240-3-ES, X-IQ-AM1-240-4, X-IQ-AM1-240-4C	Chassis type	Plastic
HumidityRelative humidity 15% to 93%Environmental ratingIf installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure.COMPLIANCEEngulatoryRegulatoryFCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) R-NZ(New Zealand) CE and RED (EU)SafetyUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1:14NetworkPTCRB, AT&T, Sprint (T-Mobile)SUPPORTED COMBINER AND IQ GATEWAY MODELY-IQ-AM1-240-B, X-IQ-AM1-240-2, X-IQ-AM1-240-3C, X-IQ-AM1-240-3-ES, X-IQ-AM1-240-3C-ES, X-IQ-AM1-240-4, X-IQ-AM1-240-4C	Operating temperature	-40°C to +65°C
Environmental ratingIf installed outdoors, install Enphase Mobile Connect cell modem in NEMA 3R or IP54 rated enclosure.COMPLIANCERegulatoryFCC Class B (US) IC (Canada) IFT (Mexico) RCM (Australia) R-NZ(New Zealand) CE and RED (EU)SafetyUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1-14 PTCRB, AT&T, Sprint (T-Mobile)SUPPORTED COMBINER AND IQ GATEWAY MODELVIC-AM1-240-B, X-IQ-AM1-240-2, X-IQ-AM1-240-3, X-IQ-AM1-240-3C, X-IQ-AM1-240-3ES, X-IQ-AM1-240-3C-ES, X-IQ-AM1-240-4C	Storage temperature	-40°C to +65°C
compliancecomplianceRegulatoryFCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) R-NZ(New Zealand) CE and RED (EU)SafetyUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1-14NetworkPTCRB, AT&T, Sprint (T-Mobile)supported combiner And IQ GATEWAY MODELX-IQ-AM1-240-B, X-IQ-AM1-240-2, X-IQ-AM1-240-3, X-IQ-AM1-240-3C, X-IQ-AM1-240-3-ES, X-IQ-AM1-240-4, X-IQ-AM1-240-4C	Humidity	Relative humidity 15% to 93%
RegulatoryFCC Class B (US) IC (Canada) IFT (Mexico) RCM(Australia) R-NZ(New Zealand) CE and RED (EU)SafetyUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1-14NetworkUL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1-14SUPPORTED COMBINER AND IQ GATEWAY MODELTCRB, AT&T, Sprint (T-Mobile)SUPPORTED COMBINER AND IQ GATEWAY MODELX-IQ-AM1-240-B, X-IQ-AM1-240-2, X-IQ-AM1-240-3, X-IQ-AM1-240-3C, X-IQ-AM1-240-3-ES, X-IQ-AM1-240-4, X-IQ-AM1-240-4C	Environmental rating	
IC (Canada)IFT (Mexico)RCM(Australia)R-NZ(New Zealand)CE and RED (EU)SafetyNetworkPTCRB, AT&T, Sprint (T-Mobile)SUPPORTED COMBINER AND IQ GATEWAY MODELIQ Combiner ModelsX-IQ-AM1-240-B, X-IQ-AM1-240-2, X-IQ-AM1-240-3, X-IQ-AM1-240-3-ES, X-IQ-AM1-240-4, X-IQ-AM1-240-4C	COMPLIANCE	
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SUPPORTED COMBINER AND IQ GATEWAY MODEL IQ Combiner Models X-IQ-AM1-240-B, X-IQ-AM1-240-2, X-IQ-AM1-240-3, X-IQ-AM1-240-3C, X-IQ-AM1-240-3-ES, X-IQ-AM1-240-4, X-IQ-AM1-240-4C	Safety	UL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1-14
IQ Combiner Models X-IQ-AM1-240-B, X-IQ-AM1-240-2, X-IQ-AM1-240-3, X-IQ-AM1-240-3C, X-IQ-AM1-240-3-ES, X-IQ-AM1-240-4, X-IQ-AM1-240-4C	Network	PTCRB, AT&T, Sprint (T-Mobile)
X-IQ-AM1-240-3C-ES, X-IQ-AM1-240-4, X-IQ-AM1-240-4C	SUPPORTED COMBINER AND IQ GATEWAY	NODEL
IQ Gateway Models ENV-IQ-AM1-240, ENV-S-AB-120-A, ENV-S-AM1-120, ENV-S-WB-230, ENV-S-WM-230	IQ Combiner Models	
	IQ Gateway Models	ENV-IQ-AM1-240, ENV-S-AB-120-A, ENV-S-AM1-120, ENV-S-WB-230, ENV-S-WM-230

2. Actual performance speeds may be affected by a variety of attributes such as cell tower distance, data loads, packet sizes, etc.

3. More regions to be added in the future.

4. CELLMODEM-M1-06-SP-05 is available only as part of X-IQ-AM1-240-4C.

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