

# Enphase IQ 8D Commercial Envoy

The **Enphase IQ 8D Commercial Envoy™** gateway delivers solar production and energy consumption data to Enphase Enlighten™ monitoring and analysis software for comprehensive, remote maintenance and management of IQ 8D systems.

With integrated revenue-grade production metering and optional consumption monitoring, the IQ 8D is the platform for total energy management and integrates with the IQ 8D Microinverters™.



## Smart

- Enables web-based monitoring and control
- Bidirectional communications for remote upgrades
- Supports power export limiting and zero-export applications

## Simple

- Easy system configuration using Enphase Installer Toolkit™ mobile app
- Flexible networking with Wi-Fi, Ethernet, or cellular

## Reliable

- Designed for installation indoors or outdoors in an enclosure
- Five-year warranty



**LISTED**

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# Enphase IQ 8D Commercial Envoy

## MODEL NUMBERS

Enphase IQ8D Commercial Envoy™ ENV-IQ8D-AM3-3P	Three-phase communications gateway with integrated, revenue-grade PV production metering (+/- 0.5%) and optional consumption monitoring (+/- 2.5%). Includes three 400A continuous rated production CTs. This Envoy works only with the IQ8D commercial microinverters.
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## ACCESSORIES (order separately)

Enphase Mobile Connect™ - CELLMODEM-M1 (4G LTE Category M1) - CELLMODEM-M1-B (4G LTE Category M1)	Plug and play industrial grade cellular modem with five-year data plan (expandable to 12 years) for systems up to 60 microinverters (expandable). Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.
Consumption Monitoring CTs CT-600-SPLIT (order three or six, as needed)	Split-core current transformers enable consumption metering.

## POWER REQUIREMENTS

Power requirements	208Y/120 VAC three-phase 220Y/127 VAC three-phase Max 20 A overcurrent protection required
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## CAPACITY

Number of microinverters polled	Up to 162. Contact Enphase about data plans for systems with more than 60 microinverters.
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## MECHANICAL AND ELECTRICAL DATA

Dimensions (WxHxD)	21.3 x 12.6 x 4.5 cm (8.4" x 5" x 1.8")
Weight	17.6 oz (498 g)
Ambient temperature range	-40° to 65° C (-40° to 149° F) -40° to 46° C (-40° to 115° F) if installed in an enclosure
Environmental rating	IP30. For installation indoors or in an NRTL-certified, NEMA type 3R enclosure.
Altitude	To 2000 meters (6,560 feet)
Production CTs	- Capable of measuring 400A of continuous current with 0.5% accuracy - Accuracy of +/-0.5% for revenue grade production metering(ANSI C12.20 certified) - Internal aperture measures 43 mm to support 1000 kcmil conductors -UL2808 certified
Consumption CTs	- For electrical services up to 600A, with parallel runs up to 1200A - Aperture of 50mm * 50mm to support cables with cross sectional area of 150 mm sq - Service entrance rated with UL2808 certification - Rated for pollution degree 3 - Accuracy of +/-2.5% for consumption monitoring - CT wire insulation rating of 600V

## INTERNET CONNECTION OPTIONS

Integrated Wi-Fi	802.11b/g/n
Ethernet	802.3, Cat5E (or Cat 6) UTP Ethernet cable, not included
Mobile	Optional, CELLMODEM-M1 (4G LTE Category M1) or CELLMODEM-M1-B (4G LTE Category M1), not included

## COMPLIANCE

Compliance	UL 916 CAN/CSA C22.2 No. 61010-1 47 CFR, Part 15, Class B, ICES 003 IEC/EN 61010-1:2010, EN50065-1, EN61000-4-5, EN61000-6-1, EN61000-6-2 ANSI C12.20
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