![APsystems logo]

The global leader in multi-platform MLPE technology
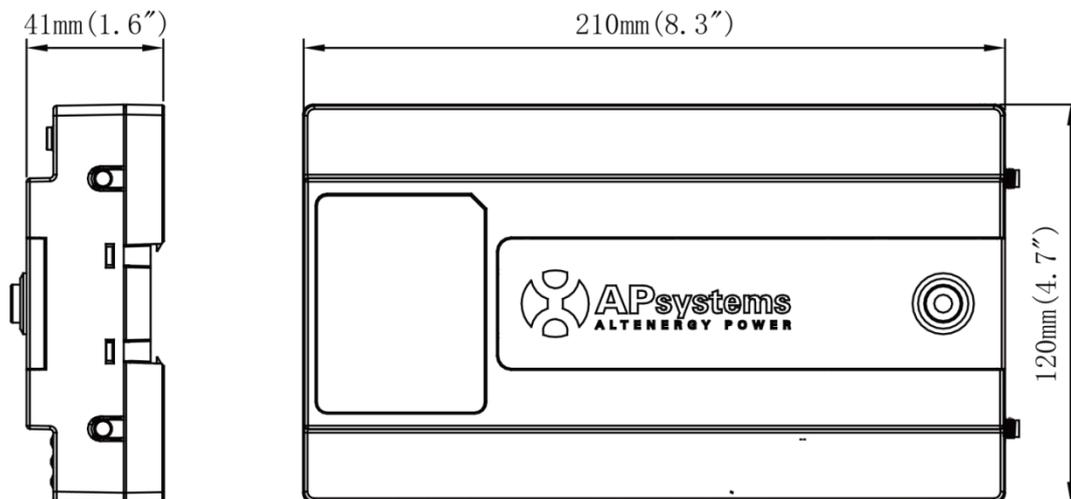

ECU-C

Energy communication unit with advanced functions

- Electricity data monitoring
- Power grid environment monitoring
- Anti-backflow control
- Relay control
- Built-in WiFi
- Internal meter
- Apply to single phase or three phase system

DIMENSIONS

41mm (1.6″) 210mm (8.3″) 120mm (4.7″)

The APsystems Gateway, our state-of-the-art Energy Communication Unit (ECU), is the information gateway for APsystems inverters. It collects and transfers module performance data giving you comprehensive monitoring and control over each individual module, optimizing the performance of your solar array.

The ECU-C, designed from the ground up for commercial applications, offers advanced functionality for more data-centric installations, with con-sumption and production monitoring, contact and relay ports, and high-frequency metering.

ECU-C Datasheet

Communication to Microinverter

Communication	ZigBee 2.4 GHz
Maximum Communicating Inverter*	120

Communication to EMA

Ethernet	10/100M Auto-sensing, Auto-negotiation
Wireless	Wi-Fi 802.11g/n /GSM Cellular
USB interface	5Vdc - 0.5A Output x 2
RS232	Standard
RS485	Standard
RJ45	Standard

Power Supply

AC Power Supply	110-277VAC, 50-60Hz Single Phase – (3-Phase Optional)
DC Power Supply	12V-16V
Power Consumption	3W

Mechanical Data

Dimensions (W x H x D)	8.3'' x 4.7'' x 1.6'' (210mm x 120mm x 41mm)
Ambient Temperature Range	-40°F to +149°F (-40°C to +65°C)
Weight	1.1lbs (500g)
Cooling	Nature Convection; No Fans
Enclosure Environmental Rating	Indoor - IP20 (NEMA 1)

Other Features

Grid Type	Single Phase/ Three Phase
Relay Driver	Control external AC contact or relay
Advanced Functions	Get relay signal, could do anti-backflow control(For single and 3-phase grid), and energy management
Digital Input	For external control device connection
CT Sensor	Production and consumption metering
Meter Accuracy	Integrated PV production metering (+/- 0.5% via CT) and optional consumption monitoring (+/- 2.5% via CT)

Compliance

Compliance	IEC/EN61010-1, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, 2014/30/EU, EN301489-1/-17, EN62479, EN 300328

*Maximum number of microinverters per ECU may vary depending on the PV array size and layout, maximum distance between ECU and microinverters in the array, obstacles (thick concrete wall, metallic roof top).

Please scan this QR code to download our APPs

or click the link below:
http://q-r.to/1OrC

Specifications subject to change without notice - please ensure you are using the most recent update found at www.APsystems.com