



## Microinverter Solution



QS1 Quad-module (4:1)

YC600 Dual-module (2:1)



ECU-R Gateway ECU-C Gateway



EMA Online monitoring

# Energy Communication Unit (ECU)

The APsystems ECU is the information gateway to our microinverters. It collects and transfers module-level data, offering comprehensive monitoring while optimizing array performance and power.

Wireless features add convenience to installation, eliminating the need for a hard line ethernet cable and allowing installers to connect to the ECU using any wireless device to view production and adjust settings.

## SPECIFICATIONS

### COMMUNICATION INTERFACE

COMMUNICATION INTERFACE	ECU-R & ECU-C
Communication Method	ZigBee 2.4GHz
Ethernet	10/100M Auto-sensing, Auto-negotiation
Integrated Wi-Fi	802.11g/n
Wireless security	WEP, WPA2-PSK
USB Interface	ECU-R: Power only 5V-1A ECU-C: Standard

### POWER REQUIREMENTS

AC Power Supply	ECU-R: 110-240 VAC, 50-60 Hz Single Phase ECU-C: 110-277 VAC, 50-60 Hz Single & Three Phase
Power consumption	ECU-R: 1.7W ECU-C: 3W

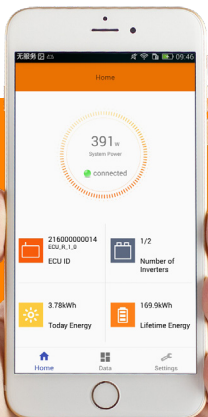
### MECHANICAL DATA

Dimension (WxHxD)	ECU-R: 4.8" x 3.4" x .98" ECU-C: 8.3" x 4.7" x 1.6"
Weight	ECU-R: 0.33lbs (150g) ECU-C: 1.1lbs (500g)
Operating Ambient temp. Range	-40°F to 149°F (-40°C to +65°C)
Cooling	Natural convection, No Fans
Enclosure environmental rating	Indoor-NEMA 1 (IP20)

### OTHER FEATURES

Grid Split Phase Type	ECU-R: Single Phase ECU-C: Single Phase / Three Phase
Warranty term	3 years

## ECU APP



ECU App for ECU-R setup lets you scan microinverter serial numbers, map a PV array and complete the APsystems registration process in the field, all through your mobile device.

Available for both Apple iOS and Android devices. Simply search for "ArrayApp" in the App Store or Google Play.



[View ECU-R and ECU-C datasheets for more information](#)

# Energy Monitoring & Analysis (EMA)

Our advanced Energy Monitoring & Analysis software offers comprehensive, round-the-clock monitoring of the APsystems microinverter array. Robust feature sets meet both homeowner and installer requirements.



## FEATURES

- Convenient online tool allows installers to preconfigure the array before reaching the jobsite
- Receive regular status reports to ensure proper system performance
- Free Module-level monitoring - Homeowner account lets end user see module-level data, production and savings over time
- Installer account offers more robust feature set for system configuration, mapping and control

## EMA APP

EMA App lets you track solar array performance in real time through any web-enabled mobile device. See system output by day, month, year and lifetime, while measuring environmental benefits as well.

All data is displayed through an easy-to-use graphical interface.

Both Apple iOS and Android versions are available for download in the iTunes App Store and Google Play.

