APsystems
ALTENERGY POWER

The global leader in
multi-platform MLPE technology



ECU-R

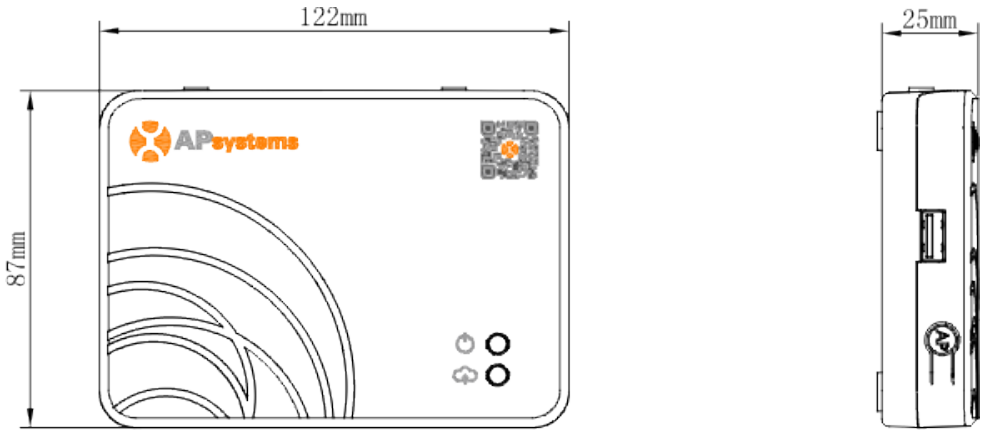
Energy Communication Unit

- Collection and transmission of inverter data
- Real time monitoring of each inverter
- Stable wireless encrypted ZigBee communication with microinverters, built in Wi-Fi and Ethernet
- Small size, flexible installation

PRODUCT FEATURES

The APsystems Energy Communication Unit (ECU-R) is the information gateway for our microinverters. The ECU-R collects module performance data from each individual microinverter and transfers the information to an Internet database in real time. Through the APsystems Energy Monitoring and Analysis (EMA) software, the ECU-R gives you precise analysis of each micro-inverter and PV module in your solar installation powered by APsystems. The user-friendly interface gives you access to your solar array performance in seconds from our web based portal or from our APP.

DIMENSIONS



ECU-R Datasheet

Model	ECU-R

Communication to Microinverter

Communication	ZigBee 2.4 GHz
Maximum Communicating Quantity*	100

Communication to EMA

Ethernet	10/100M Auto-sensing, Auto-negotiation
Wireless	Wi-Fi 802.11g/n /GSM Cellular
Wireless Security	WEP, WPA2-PSK
USB Interface	5Vdc - 0.5A Output

Power Date

Power Supply	5V, 2A
Power Consumption	1.7 W

Product Specifications

Frequency Range	2412MHZ-2472MHZ (WIFI), 2405mhz-2480mhz (ZigBee)
RF Output Power (EIRP)	16.56 dbm (WIFI), 9.50 dbm (ZigBee)
Type of Antenna	External antenna,SMA type connector
Modulation	DSSS, OFDM
Mode of Operation(Simplex/Duplex)	Duplex

Mechanical Data

Dimensions (W×H×D)	4.8'' x 3.4'' x 0.98'' (122 mm x 87 mm x 25 mm)
Weight	0.33lbs (150g)
Energy Management	-4°F to +149°F (-20°C to +65°C)
Cooling	Nature Convection; No Fans
Enclosure Environmental Rating	Indoor - NEMA 1 (IP20)
Warranty	3 Years Standard

Features

Compliance	IEC 60950-1, EN60950-1, IEC 60529, EN 60529, ANSI/UL 60950-1, CAN/CSA C22.2 No.60950-1, UL50E, FCC part 15, EN61000-6-1, EN61000-6-3, ICES-003, AS NZS 60950-1, GB/T17799

**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 check the link: https://apsystems.com/qr-code/

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