

## Power Supplies for a Smarter World

**RECOM's energy-efficient AC/DC and DC/DC converters live up to the Industry 4.0 and IoT challenges and offer high efficiency at both light load and full load at affordable prices.**

The Internet of Things (IoT) covers many separate concepts, but they share the following common features: distributed intelligence, multiple interconnected sensors/actuators and decentralized control. In practice, IoT means that certain spaces, environments or objects can be made "smart" by incorporating sensors that can communicate to make them behave intelligently. Not every power supply is suitable for an IoT application. They must be space-saving, reliable, highly efficient at both low load and full load, and above all they must be affordable as they will be as common as the sensors, processors and actuators that they supply.

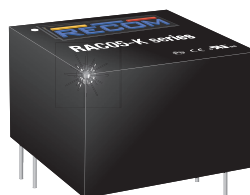
For all these requirements, RECOM offers a variety of suitable products: Highly efficient, low standby consumption AC/DC power supplies that can be used in a smart office with hundreds of intelligent sensor nodes, low cost isolated DC/DC power supplies for multiple input channels and a very low input voltage boost converter to generate a reliable power supply from a single battery cell.

### Main features:

- Low profile AC/DC and DC/DC converters
- Low cost
- Low standby power consumption
- Wide input voltage range
- Wide operating temperature range
- Industrial and household certifications
- 3-year warranty

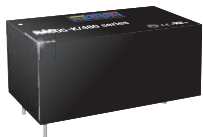
### Applications:

- Smart office & smart building
- Home automation
- Single-cell powered IoT application
- Microprocessor power supply
- WLAN/Bluetooth modules
- LoRaWAN modules



## **RAC01-GA&GB, RAC02-GA&GB, RAC03-GA&GB and RAC04-GA&GB:**

The RACxx-G series are low cost, compact, efficient low power supply modules ideally suited to IoT installations and offer [1W](#), [2W](#), [3W](#) or [4W](#). They have low standby power requirements, yet can deliver up to 175% peak load and are household certified to EN60355-1 (GA-versions). The -GB versions come with a built-in Class B /FCC Part 15 EMC Filter.



## **RAC05-K/480: 5 Watt for wide mains voltages up to 480VAC**

The [RAC05-K/480](#) series accepts phase-to-phase voltages of up to 480VAC, which makes them ideally suited for smart process automation applications in OVC III conditions.

## **RAC03-SER/277: AC/DC converter in round shape**

The regulated [RAC03-SER/277](#) series power supplies were designed to fit inside standard wall boxes and can be used in a variety of applications in building automation, security systems and communication systems.



## **RAC05-K: 5W AC/DC converter in 1" x 1" case**

The [RAC05-K](#) is a low cost 5W AC/DC converter in the tiny PCB size of 1" x 1", offering an impressive power density of 7.7W per in<sup>3</sup>. They are specially designed to supply IoT and factory automation applications featuring a low no-load power consumption of only 75mW and excellent light load efficiency, ideal for "always-on" IoT systems.

## **RAC10-K, RAC15-K, RAC20-K: 10W-20W AC/DC converters in 2" x 1" case**

The [RAC10-K](#) low cost AC/DC converter series in a tiny 2" x 1" package was developed for the requirements of the latest IoT systems and offers a wide input voltage range from 85 to 305VAC up to 80°C operating temperature. Based on the 10W-version, the [RAC15-K](#) and [RAC20-K](#) series offer higher power density at input voltages from 85 to 264VAC.



## **R1SX: Low profile & low cost DC/DC converters (1W)**

The [R1SX](#) are thumb-nail sized SMD DC/DC converters that can be used to isolate 3.3V and 5V supplies to separate control functions so that any local faults, short-circuits or electrical interference do not cause system-wide outages.

## **R-78S: Very low power switching regulators**

RECOM's [R-78S](#) switching regulator has been specially designed for single-cell powered IoT applications. Due to its wide input voltage range down to 0.65V, high efficiency and low standby consumption, it extends the working lifetime of the cell.



For more details please visit: [www.recom-power.com/IoT](http://www.recom-power.com/IoT)

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