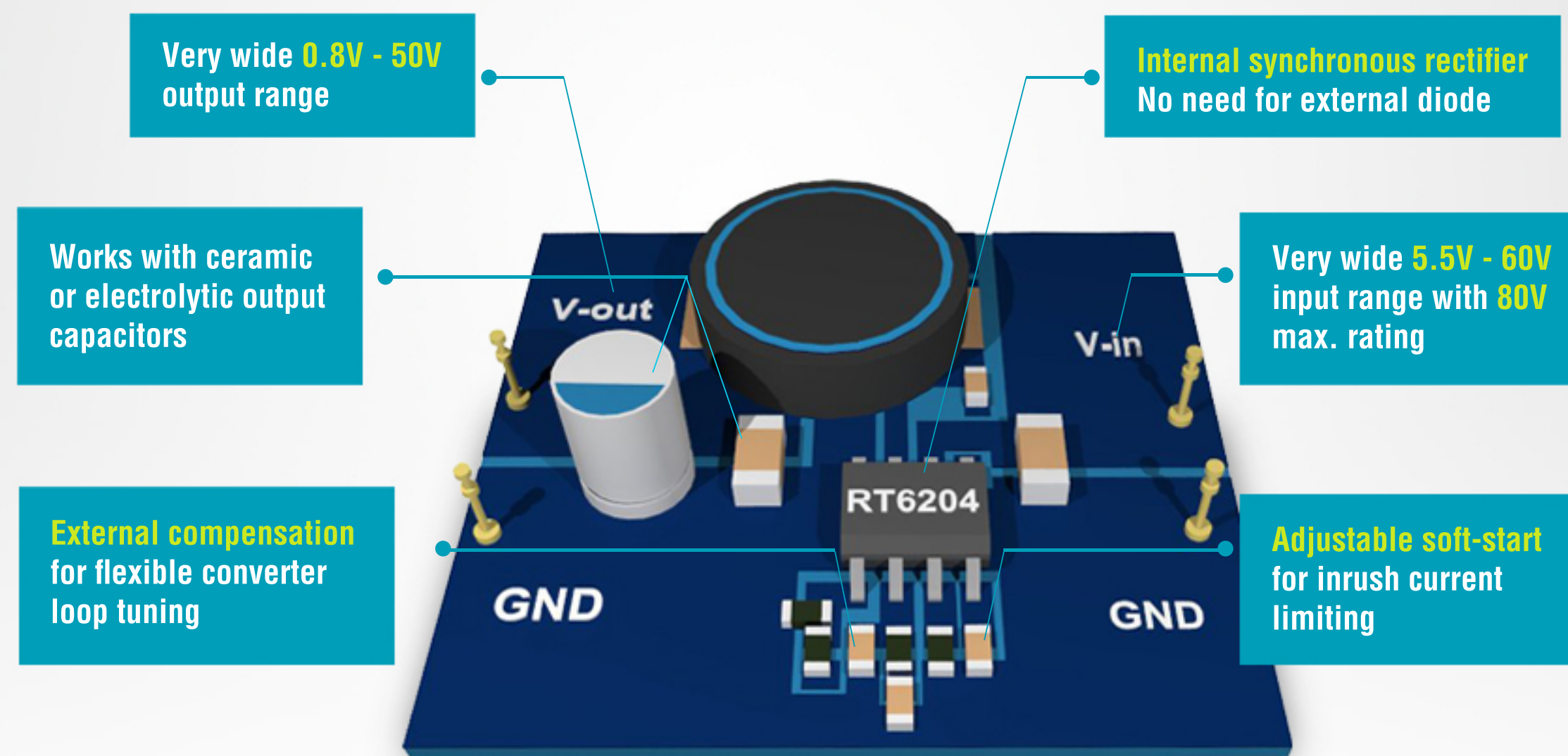


RT6204

Wide 5.5-60V Input Synchronous Buck Converter



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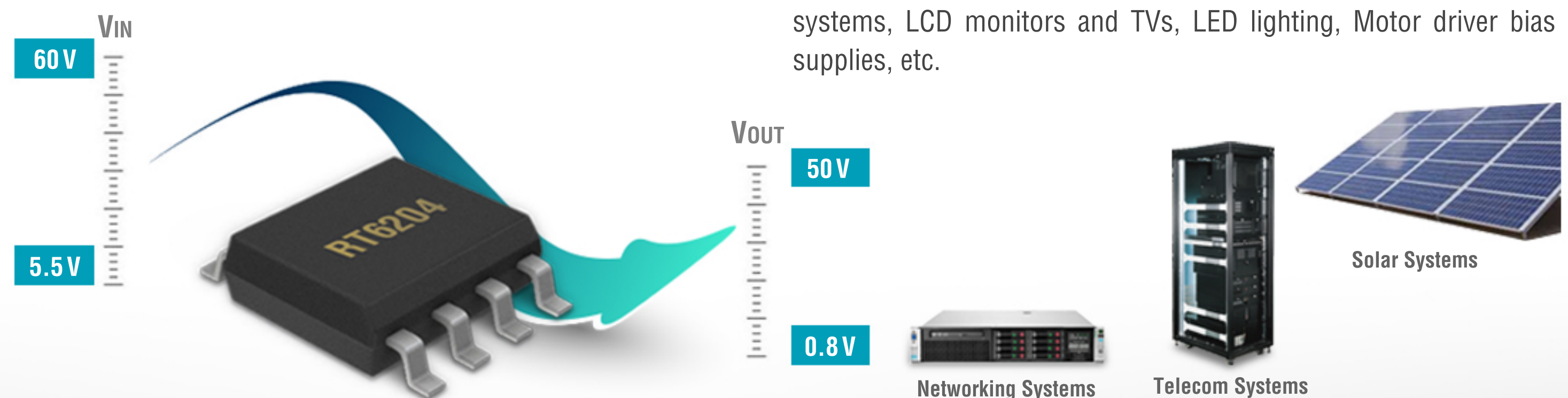
Richtek's latest addition to the Wide V_{IN} converter range

Key Features

- The **wide input range from 5.5V to 60V** makes it suitable for virtually any industrial application range, from battery fed automotive to 12V/24V/48V industrial supplies with load currents up to 0.5A.
- The **80V max rating** makes this IC very tolerant to hot-swapping and other supply voltage transients.
- The **Integrated synchronous rectifier** eliminates the external buck diode, lowering BOM cost.
- RT6204 has a **small minimum on time** which helps to archive very high step down ratios.
- **External compensation** gives great flexibility in loop tuning, and allows the use of either ceramic output capacitors for low voltage outputs or electrolytic output capacitors for higher output voltage supplies.
- **Frequency reduction** at light load, enhancing light load efficiency.
- **Slew rate limited switching** helps to reduce EMI radiation.
- Housed in the popular **SOP-8 package** with thermal pad, this IC is a great step-down building block for any system requiring output voltages from **0.8V up to 50V at 0.5A max load current**.

Applications

Automotive electronics, solar power systems, networking and telecommunication systems, industrial and communication low power systems, LCD monitors and TVs, LED lighting, Motor driver bias supplies, etc.



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