



**Richtek Power IC Solutions for  
IoT / Portable / Wearable / Battery-Powered Applications**

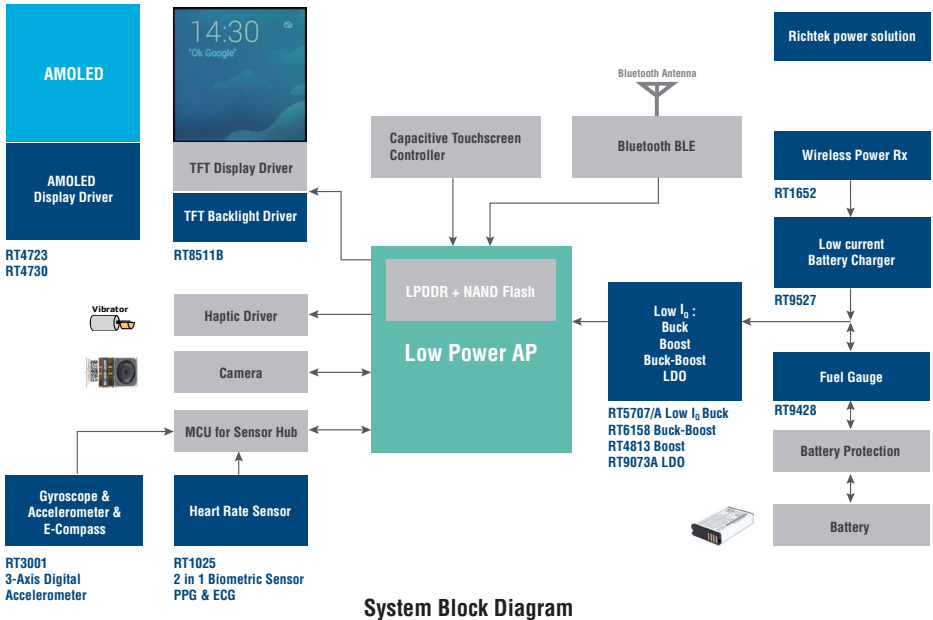
Sep. 2018

# Power IC Solutions for IoT / Portable / Wearable / Battery-Powered Applications



**RICHTEK**

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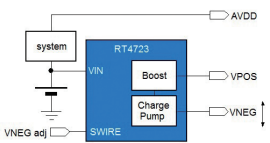

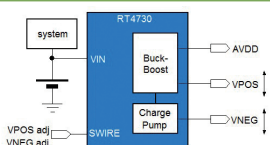

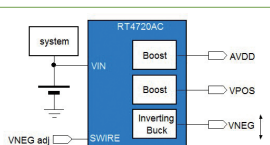

## Boost Converters



Topology	Part Number	Vin	Vout	I	Iq	Fsw	Key Features	Package
	<a href="#">RT9266</a>	2.0V-6.0V	2.6V-6.0V	2A switch	55uA	500kHz	<ul style="list-style-type: none"> <li>→ 1.0V low start-up input voltage</li> <li>→ Deliver 3.3V 100mA with 1 alkaline cell</li> </ul>	SOT-23-6 SOT-89-5
	<a href="#">RT4812</a>	1.8V-5.5V	1.8V-5.5V	2.1A out	90uA	500kHz	<ul style="list-style-type: none"> <li>→ Synchronous</li> <li>→ CMCOT topology</li> <li>→ Selectable average I-lim 1A &amp; 2.1A</li> </ul>	TSOT-23-8
	<a href="#">RT4813</a>	1.8V-5.5V	1.8V-5.5V	3.1A out	120uA	500kHz	<ul style="list-style-type: none"> <li>→ Synchronous</li> <li>→ I<sup>2</sup>C Programmable average I-lim: 0.55A-3.1A</li> </ul>	UQFN2x2-9
	<a href="#">RT4803</a>	1.8V-5.0V	2.85V-4.4V (3.3V/3.55V/I <sup>2</sup> C)	2A out	65uA	2.5MHz	<ul style="list-style-type: none"> <li>→ Synchronous</li> <li>→ Low Iq 15uA @ Force bypass</li> <li>→ Stand-alone or I<sup>2</sup>C control</li> </ul>	WL-CSP1.67x1.67-16(BSC)
	<a href="#">RT4803A</a>	1.8V-5.0V	2.85V-4.4V (3.15V/3.4V/I <sup>2</sup> C)	2A out	55uA	2.5MHz	<ul style="list-style-type: none"> <li>→ Synchronous</li> <li>→ Low Iq 4uA @ Force bypass</li> <li>→ Stand-alone or I<sup>2</sup>C control</li> </ul>	WL-CSP1.67x1.67-16(BSC)
	<a href="#">RT9361A</a>	2.8V-5.0V	5.0V/4.5V	0.1A out	2mA	1MHz	<ul style="list-style-type: none"> <li>→ Charge pump</li> </ul>	SOT-23-6 TSOT-23-6 WDFN2x2-6
	<a href="#">RT9277C</a>	2.5V-5.5V	3V-16V	1.6A switch	2mA	640k/1.2MHz	<ul style="list-style-type: none"> <li>→ Asynchronous</li> <li>→ Ext. programmable Soft Start</li> </ul>	MSOP-8 WDFN3x3-8
	<a href="#">RT9297</a>	2.6V-5.5V	2.6V-24V	3.8A switch	4mA	640k/1.24MHz	<ul style="list-style-type: none"> <li>→ Asynchronous</li> <li>→ Programmable Soft Start</li> </ul>	WDFN3x3-10
	<a href="#">RT8509</a>	2.8V-14V	3.5V- 24V	3.5A switch	1mA	1.2MHz	<ul style="list-style-type: none"> <li>→ Asynchronous</li> <li>→ Soft Start</li> <li>→ Ext. comp.</li> </ul>	WDFN3x3-10
	<a href="#">RT8509A</a>	2.8V-14V	3.5V- 24V	4.5A switch	5mA	1.2MHz	<ul style="list-style-type: none"> <li>→ Asynchronous</li> <li>→ Soft Start</li> <li>→ Ext. comp.</li> </ul>	WDFN5x5-12

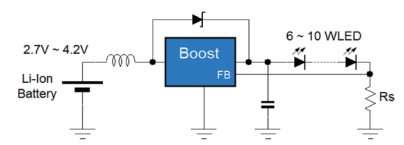
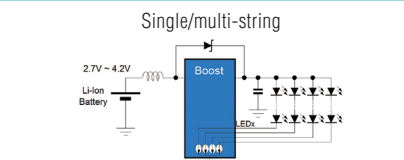
## AMOLED Power ICs



Topology	Part Number	VBAT	Iout	Key Features	Package
 <p>Optimized for 1" to 2" AMOLED displays with non-symmetrical supplies</p> 	<a href="#">RT4723</a>	2.5V-4.6V	30mA	→ Dual output with integrated Boost converter for Vpos and charge pump for Vneg	WL-CSP1.39x2.07-15(BSC)
 <p>Optimized for 1" to 2" AMOLED displays requiring symmetrical supplies</p> 	<a href="#">RT4730</a>	2.9V-4.8V	50mA	→ Dual output with integrated Buck-Boost converter for Vpos and charge pump for Vneg	WL-CSP2.34x2.34-16(BSC)
 <p>Optimized for 3.5" to 5" AMOLED displays requiring non-symmetrical supplies</p> 	<a href="#">RT4720AC</a>	2.9V-4.5V	300mA (Vneg&Vpos) 50mA (AVDD)	→ Triple output with three integrated DC/DC converters for Vpos, Vneg and AVDD	WQFN3x3-16

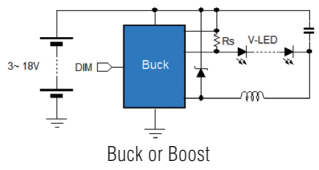
## LED Drivers



Topology	Part Number	Vin	Vout	I	Key Features	Package
 <p>Low power&lt;4W</p>	<a href="#">RT9285B</a>	2.7V-5.5V	up to 20V	0.4A switch	→ 1MHz Fsw → Built-in Diode	WDFN2x2-8 TSOT-23-6
	<a href="#">RT4533</a>	2.5V-5.5V	up to 36.5V	1.2A switch	→ 1.1MHz Fsw → Asynchronous for 10 WLEDs	TSOT-23-6
	<a href="#">RT8511B</a>	2.7V-24V	up to 43V	2.2A switch	→ 500KHz Fsw → 43V Asynchronous → 100-8kHz Direct PWM dimming	WDFN2x2-8
 <p>Single/multi-string</p>	<a href="#">RT8532</a>	2.5V-24V	up to 43V	2.5A switch	→ 0.5M/1MHz Fsw → 6 String 10 WLEDs/per string → Direct PWM dimming & PWM to Analog dimming	WQFN3x3-20

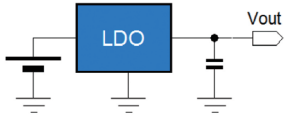
## LED Drivers



Topology	Part Number	Vin	Vout	I	Key Features	Package
 <p>Buck or Boost</p>	<a href="#">RT8498</a>	3.0V-18V	3.0V-18V	2A switch	<ul style="list-style-type: none"> <li>→ 350kHz Fsw</li> <li>→ Multi-topology</li> <li>→ Analog, PWM Digital or PWM to Analog dimming</li> </ul>	SOT-23-6

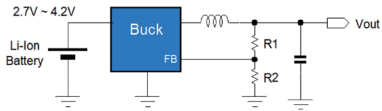
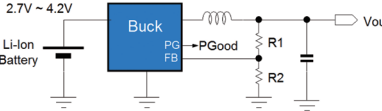
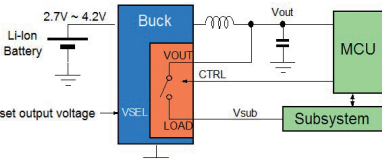
## LDOs



Topology	Part Number	Vin	Vout	Iout	Iq	dropout	Key Features	Package
	<a href="#">RT9073A/N</a>	1.2V-5.5V	Fixed 0.9V-3.3V	250mA	1uA	0.45V@0.25A	→ With Enable	ZQFN1x1-4 (ZDFN1x1-4), SC-82, SOT-23-5, SC-70-5
	<a href="#">RT9063</a>	2.5V-6.0V	Fixed 1.2V-3.3V	250mA	1uA	0.4V@0.2A		SOT-23-3, SOT-89-3
	<a href="#">RT9078</a>	1.2V-5.5V	Fixed 0.8V-3.45V	300mA	2uA	0.15V@0.3A	→ With Enable	TSOT-23-5, ZQFN1x1-4 (ZDFN1x1-4)
	<a href="#">RT9080</a>	1.2V-5.5V	Fixed 0.8V-3.3V	600mA	2uA	0.31V@0.6A	→ With Enable	TSOT-23-5, ZQFN1x1-4 (ZDFN1x1-4)
	<a href="#">RT9058</a>	3.5V-36V	Fixed 2.5-12V	100mA	2uA	0.3V@10mA		SOT-23-3, SOT-89-3
	<a href="#">RT9086</a>	2.2V-5.5V	Adj. 1.2V-4.5V	250mA	16uA	0.12V@0.25A	<ul style="list-style-type: none"> <li>→ Ultra-high PSRR</li> <li>→ With Enable</li> <li>→ -40°C to 125°C T<sub>J</sub> operating</li> </ul>	WL-CSP0.67x0.67-4(BSC), SOT-23-5
	<a href="#">RT9076</a>	2.5V-6V	Fixed 1.2V-3.3V	250mA	25uA	0.4V@0.2A		SOT-23-3
	<a href="#">RT9013</a>	2.2V-5.5V	Fixed 1.2V-2.85V	500mA	25uA	0.25V@0.5A	→ Very low noise	SC-82, SOT-23-5, SC-70-5, WDFN2x2-6
	<a href="#">RT9083</a>	1.2V-5.5V	Fixed 0.9V-3.3V	250mA	30uA	0.45V@0.25A	→ With Enable	TSOT-23-5
	<a href="#">RT9055</a>	1.5V-5.5V	Fixed 1.0V-3.5V	300mA +300mA	29uA +29uA	0.24V@0.3A	<ul style="list-style-type: none"> <li>→ Dual outputs</li> <li>→ With Enable</li> </ul>	WL-CSP0.8x1.2-6
	<a href="#">RT9081A</a>	0.8V-5.5V	Fixed 0.9V-1.8V Adj. 0.8V-3.6V	500mA	80uA	0.14V@0.5A	<ul style="list-style-type: none"> <li>→ Low Vin / low Vout</li> <li>→ With Enable</li> <li>→ Vbias 2.4V-5.5V</li> </ul>	ZADFN1.2x1.2-6
	<a href="#">RT9193</a>	2.2V-5.5V	Fixed 1.5V-5.0V	300mA	90uA	0.22V@0.3A	<ul style="list-style-type: none"> <li>→ Low Vin / low Vout</li> <li>→ With Enable</li> </ul>	SC-70-5, SOT-23-5, TSOT-23-5, WDFN2x2-6, MSOP-8 etc.

## Buck Converters



Topology	Part Number	Vin	Vout	Iout	Iq	Fsw	Key Features	Package
 <p><b>CMCOT mode</b></p> <ul style="list-style-type: none"> <li>→ Fast transient</li> <li>→ max duty-cycle 80%</li> <li>→ PSM and force-PWM</li> </ul>	<a href="#">RT5710</a>	2.5V-6.0V	0.6V-3.4V	1A	22uA	1.5MHz		WDFN2x2-6
	<a href="#">RT8096</a>	2.5V-6.0V	0.6V-3.4V	1A	22uA	1.5MHz	→ Power Good	(T) SOT-23-5/6
	<a href="#">RT5711</a>	2.5V-6.0V	0.6V-3.4V	1.5A	22uA	1.0MHz		WDFN2x2-6
	<a href="#">RT5796</a>	2.5V-6.0V	0.6V-3.4V	1.5A	22uA	1.0MHz	→ Power Good	(T) SOT-23-5/6
	<a href="#">RT5712</a>	2.7V-6.0V	0.6V-3.4V	2A	22uA	1.0MHz		WDFN2x2-6
	<a href="#">RT8097</a>	2.7V-6.0V	0.6V-3.4V	2A	22uA	1.0MHz	→ Power Good	SOT-23-5/6
	<a href="#">RT5797</a>	2.7V-6.0V	0.6V-3.4V	3A	22uA	1.0MHz	→ Power Good	WDFN2x2-8 (S)
 <p><b>ACOT mode</b></p> <ul style="list-style-type: none"> <li>→ Ultra-fast transient</li> <li>→ Power Good</li> <li>→ 100% duty-cycle mode</li> </ul>	<a href="#">RT5784A/B</a>	2.5V-6.0V	VFB=0.6V	2A	25uA	1.5MHz	→ Power Good	WDFN2x1.5-8J (FC)
	<a href="#">RT5785A/B</a>	2.5V-6.0V	VFB=0.6V	2A	25uA	1.5MHz	→ Power Good	TSOT-23-8 (FC)
	<a href="#">RT5795A</a>	2.5V-5.5V	VFB=0.45V	2A	30uA	2.7MHz	→ PSM only	WDFN2x2-8S
	<a href="#">RT5788A/B</a>	2.5V-6.0V	VFB=0.6V	4A	35uA (A)	1.5MHz	→ Power Good	TSOT-23-8 (FC)
	<a href="#">RT5789A/B</a>	2.5V-6.0V	VFB=0.6V	6A	35uA (A)	1.5MHz	→ Power Good	TSOT-23-8 (FC) UDFN2.5x2-8 (FC)
 <p><b>HCOT mode</b></p> <ul style="list-style-type: none"> <li>→ Ultra-fast transient</li> <li>→ 100% duty-cycle mode</li> <li>→ Ultra low Iq</li> <li>→ Build in load switch</li> </ul>	RT5706	2.2V-5.5V	1.2V / 1.8V	400mA (500mA Ipeak)	0.36uA	1.2MHz	<ul style="list-style-type: none"> <li>→ Ultra low Iq</li> <li>→ Load switch</li> <li>→ 1 Vout select pin</li> </ul>	WL-CSP0.9x1.6-8 (BSC) WDFN2x2-8L

## Buck Converters



Topology	Part Number	Vin	Vout	Iout	Iq	Fsw	Key Features	Package
<p><b>HCOT mode</b></p> <ul style="list-style-type: none"> <li>→ Ultra-fast transient</li> <li>→ 100% duty-cycle mode</li> <li>→ Ultra low Iq</li> </ul>	<a href="#">RT5707</a>	2.2V-5.5V	1.2V-3.3V	0.6A/1.0A Ipeak	0.36uA	1.2MHz	<ul style="list-style-type: none"> <li>→ Ultra low Iq</li> <li>→ 3 Vout select pins</li> </ul>	WL-CSP0.9x1.6-8(BSC)
	<a href="#">RT5707A</a>	2.2V-5.5V	0.7V-3.1V	0.4A/0.5A Ipeak	0.36uA	1.2MHz	<ul style="list-style-type: none"> <li>→ Ultra low Iq</li> <li>→ 3 Vout select pins</li> </ul>	WL-CSP0.9x1.6-8(BSC)

## Buck Boost Converters



Topology	Part Number	Vin	Vout	Switching current	Iq	Fsw	Key Features	Package
	<a href="#">RT6150A/B</a>	1.8V-5.5V	2.5V-5.5V	1.6A	60uA	1MHz	<ul style="list-style-type: none"> <li>→ PSM/PWM</li> <li>→ Synchronous</li> </ul>	WDFN3x3-10 (A) WDFN2.5x2.5-10 (B)
	<a href="#">RT6158H</a>	2.5V-5.5V	2.1V-5.2V	3A	8uA	2MHz / 2.2-2.6MHz ext. sync.	<ul style="list-style-type: none"> <li>→ PSM/PWM</li> <li>→ Synchronous</li> </ul>	WL-CSP2.07x2.33-25 (BSC)
	<a href="#">RT6158A</a>	2.5V-5.0V	2.1V-5.2V	2A	8uA	2MHz / 2.2-2.6MHz ext. sync.	<ul style="list-style-type: none"> <li>→ PSM/PWM</li> <li>→ Synchronous</li> </ul>	WLCSP2.07x2.33-25 (BSC)
	<a href="#">RT6154A/B</a>	1.8V-5.5V	1.8V-5.5V (A) 3.3V (B)	5A	20uA	2.4MHz / 2.2-2.6MHz ext sync	<ul style="list-style-type: none"> <li>→ PSM/PWM</li> <li>→ Synchronous</li> </ul>	WDFN4x3-14A

## Switching Chargers

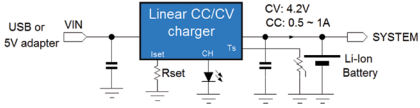
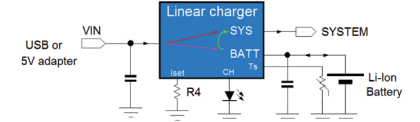


Topology	Part Number	Vin	VBAT	Key Features	Package
<p>Generic switching chargers for lead-acid or Ni-MH batteries</p>	<a href="#">RT9535A</a>	4.5V-28V	2.5V-22V	<ul style="list-style-type: none"> <li>→ Internal switch</li> <li>→ Asynchronous Adj. CV</li> <li>→ Fsw 500kHz</li> </ul>	WQFN4x4-16
	<a href="#">RT9535B</a>	4.5V-28V	2.5V-22V	<ul style="list-style-type: none"> <li>→ ICH 2A</li> <li>→ Internal switch</li> <li>→ Input current limit</li> <li>→ End of charge flag</li> <li>→ ASynchronous Adj. CV</li> <li>→ Fsw 500kHz</li> </ul>	WQFN4x4-24
	<a href="#">RT9538</a>	4.5V-28V	2.5V-25V	<ul style="list-style-type: none"> <li>→ External switch, Input current limit, Asynchronous Adj. CV, Fsw 475kHz</li> </ul>	WQFN4x4-16
<p>Li-ion switching chargers for mobile phones, tablet PC with large capacity batteries: single cell Li-ion or LiPo 1800mAh-4000mAh</p>	<a href="#">RT9458</a>	4.3V-6V	3.5V-4.44V (per 20mV)	<ul style="list-style-type: none"> <li>→ I<sup>2</sup>C control</li> <li>→ I<sub>ch</sub>(adj.) 0.5A-1.55A</li> <li>→ Int.MOSFETs</li> <li>→ Thermal regulation</li> <li>→ USB OTG 1A</li> </ul>	WL-CSP2.1x1.87-20(BSC)
	<a href="#">RT9460</a>	4.3V-9V	3.5V-4.62V (per 20mV)	<ul style="list-style-type: none"> <li>→ I<sup>2</sup>C control &amp; stand-alone</li> <li>→ I<sub>ch</sub>(adj.) 1.25A-3.125A</li> <li>→ Int.MOSFETs</li> <li>→ NTC sense JEITA CC.</li> <li>→ Thermal regulation</li> <li>→ USB OTG 0.5A/1A</li> </ul>	WL-CSP2.52x2.52-25(BSC)
	<a href="#">RT9466</a>	4V-14V	3.9V-4.71V (per 10mV)	<ul style="list-style-type: none"> <li>→ I<sup>2</sup>C I-ch(adj) 0.1-5A</li> <li>→ int. MOSFETs</li> <li>→ NTC sense JEITA CC</li> <li>→ CV. Thermal Reg.</li> <li>→ IR compensation</li> <li>→ USB OTG 0.5A-2.4A</li> <li>→ Ship &amp; Factory mode</li> <li>→ Current reporting</li> </ul>	WQFN4x4-24
	<a href="#">RT9468</a>	4V-14V	3.9V-4.71V (per 10mV)	<ul style="list-style-type: none"> <li>→ Supports Direct Charge</li> <li>→ I<sup>2</sup>C I-ch(adj) 0.1-5A</li> <li>→ int. MOSFETs</li> <li>→ NTC sense JEITA CC</li> <li>→ CV. Thermal Reg.</li> <li>→ IR compensation</li> <li>→ USB OTG 0.5A-2.4A</li> <li>→ Ship &amp; Factory mode</li> <li>→ Current reporting</li> </ul>	WQFN4x4-32



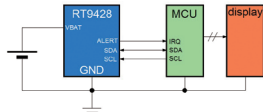
## Linear Single Cell Li-Ion Charger ICs



Topology	Part Number	AC Adapter	Vin	I-ch (adj.)	CV	Key Features	Package
 <p>Low capacity batteries 100mAh-500mAh for sensors, wearables &amp; IOT</p> <p>For 400-1000mAh Li-ion batteries</p> <p>For 400-1000mAh Li-ion batteries &amp; different battery voltages</p>	<a href="#">RT9527</a>	28V	4.4V-6V	10mA-600mA	4.2V	<ul style="list-style-type: none"> <li>→ NTC sense</li> <li>→ Timer</li> <li>→ 2 indicators</li> </ul>	WDFN2x2-8
	<a href="#">RT9505</a>	18V	4.5V-6V	1.2A	4.2V	<ul style="list-style-type: none"> <li>→ NTC sense</li> <li>→ 2 indicators</li> </ul>	WDFN3x3-10
	<a href="#">RT9502</a>	18V	4.5V-6V	1.2A	4.2V	<ul style="list-style-type: none"> <li>→ USB 100/500 mode</li> <li>→ NTC sense</li> <li>→ 2 indicators</li> </ul>	WDFN3x3-10
	<a href="#">RT9532</a>	28V	4.3V-6.2V	1A	4.2V & factory mode	<ul style="list-style-type: none"> <li>→ 4.9V LDO</li> <li>→ USB 100/500 mode</li> <li>→ 2 indicators</li> </ul>	WDFN3x2-10
 <p>Linear chargers with auto power path</p>	<a href="#">RT9536</a>	28V	4.3V-5.5V	1A	4.2V & 4.35V & factory mode	<ul style="list-style-type: none"> <li>→ 4.9V LDO</li> <li>→ USB 100/500 mode</li> <li>→ 2 indicators</li> </ul>	WDFN3x2-10
	<a href="#">RT9519B</a>	28V	4.4V-6V	1.2A	4.2V	<ul style="list-style-type: none"> <li>→ APPM</li> <li>→ Adjustable Vbat &amp; Vin current limit 0.1/0.5/1.5A</li> <li>→ NTC sense</li> <li>→ 2 indicators</li> </ul>	WQFN3x3-20
	<a href="#">RT9525</a>	28V	4.2V-6V	1.2A	4.2V	<ul style="list-style-type: none"> <li>→ APPM with system off</li> <li>→ Adjustable Vin current limit 0.1/0.5/1.5A</li> <li>→ NTC sense</li> <li>→ 2 indicators</li> </ul>	WQFN3x3-16

## Battery Gauge

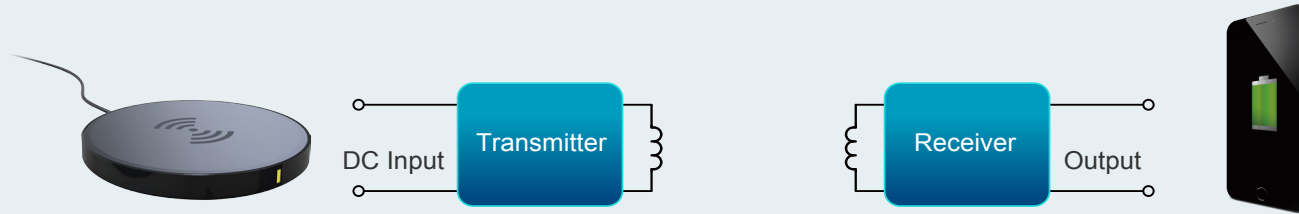


Topology	Part Number	Vin	Key Features	Package
 <p>Single cell Li-ion gauge</p>	<a href="#">RT9428</a>	2.5V-4.5V	<ul style="list-style-type: none"> <li>→ 7.5mV sense accuracy</li> <li>→ 3% SOC accuracy</li> <li>→ I<sup>2</sup>C control with Alert pin</li> </ul>	WL-CSP1.6x1.52-8(BSC)

## Wireless Power



WPC Family			Note
WPC Qi EPP Certified	Transmitter (Tx)	Receiver (Rx)	→ Find out more for wireless power reference designs and purchase information.
Low Power(<5W)	RT3181A (LP-A11) WPC Qi EPP Certified	<a href="#">RT1652</a>	
Medium Power (5W-15W)	RT3181A (MP-A5) WPC Qi EPP Certified	RT1653	



## 3-Axis Accelerometer



Topology	Part Number	Key Features	Package
<p>Motion sensor family: 3-Axis accelerometer</p>	RT3001	<ul style="list-style-type: none"> <li>→ Ultra-low Power Consumption                             <ul style="list-style-type: none"> <li>→ 12.7uA @ 50Hz ODR</li> <li>→ 1.4 uA @ 6.25Hz ODR, Wakeup Mode Operation</li> <li>→ 0.11uA @ Power Down Mode Current</li> </ul> </li> <li>→ Programmable ±2G, ±4G, ±8G Full Scales</li> <li>→ Programmable Interrupts (Glance, single/double tap, etc.)</li> <li>→ Embedded Deep FIFO</li> <li>→ I<sup>2</sup>C interface</li> </ul>	LGA-12L 2x2

## Biometric sensor



Topology	Part Number	Key Features	Package
<p>Low-Power, Integrated ECG/PPG AFE for Heart-Rate Monitoring and Measurements</p>	<a href="#">RT1025</a>	<ul style="list-style-type: none"> <li>→ Integrated AFE solution for Heart-Rate monitoring and measurements</li> <li>→ Integrated low-noise, high-precision voltage and current sensing channels for sensing ECG (Electrocardiography) and PPG (Photoplethysmography) simultaneously</li> <li>→ Over 85dB high CMRR (common-mode rejection ratio) to achieve good noise cancellation</li> <li>→ High levels of integration and high-precision voltage and current sensing channels for scalable medical instrumentation systems</li> <li>→ Also Ideal for low-power medical ECG/PPG, sports and fitness wearable devices etc.</li> </ul>	WL-CSP3.10x3.48-41



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