

ISL9122 NPI OVERVIEW

APRIL, 2020

ISL9122 PRODUCT SNAPSHOT

ULTRA-LOW IQ BUCK-BOOST REGULATOR

Features	Benefits	Applications
<ul style="list-style-type: none"> • Ultra-low I_Q, standby and shutdown current • High efficiency at light and heavy loads • Dynamic V_{out} change in 25 mV increments • Fast transient response • Multiple operating modes <ul style="list-style-type: none"> • PFM/PWM • Forced PWM • Ultra-sonic • Forced Bypass 	<ul style="list-style-type: none"> • Extends battery life by > 30% compared to LDO • Extends usable battery range to 0.8V • Provide flexibility during operation • Reduce the impact of frequency noise • Reduces overall system cost 	<ul style="list-style-type: none"> • Smart Watches and Fitness Band • Water and Gas Meters • Portable Medical Devices • Battery operated Building Automation (camera, smoke detector Wifi extension) • Battery operated IoT Devices

Typical Application and Ordering Information

Part	Description	Package	V_{in}	V_{out}	Default	Evaluation Board
ISL9122A	500mA buck-boost	WLCSP	1.8V - 5.5V	Adjustable (I^2C), 1.8V - 5.375V	3.0V	ISL9122AIIN-EVZ
		QFN		Adjustable (I^2C), 1.8V - 5.375V	3.0V	ISL9122AIRN-EVZ

Renesas.com