

A great Team reunited !!

Exiting News! After 3 years Protec & Renesas signed a new contract to support the HighRel customers in Europe plus Turkey and Israel.



Renesas is a major supplier to the military and aerospace industries, their products can be found in virtually every satellite launched into space.

- **Radiation Hardened:** All Renesas radiation-hardened SMD products are MIL-PRF-38535/QML compliant and 100% burned in. A wide range of rad-hard and single-event effects (SEE) Class V (space-level) compliant products are available for space and harsh environment applications.
- **Radiation-Tolerant:** Our radiation-tolerant (rad-tolerant) plastic-package ICs are designed to support the emerging field of small satellites that will provide solutions, such as high-speed Internet connections, to hundreds of millions of people in communities, governments, and businesses worldwide.
- **Defense & High-Reliability:** We offer high-performance analog, digital, and power management products for military, aerospace, and other harsh environment applications. SMD products feature hermetic packages and are 100% burned in—with guaranteed performance from -55°C to +125°C and MIL-PRF-38535 compliance.

Protec will re-establish what ended in 2022. We will work together with Renesas/Intersil to give the best possible support and service to all our customers in Europe. Our Team will keep you updated on new developments, the roadmap and support you wherever possible.

Renesas has a wide offering of NewSpace and Traditional Space components and invests heavily to innovate and increase their portfolio for these Applications.

Protec invests into improved support and customer service. We increase our inside Sales Team from 5 to 11 people, to strengthen our support to our customer base.

In the last 3 Years Renesas released a series of parts, please find below a selection of these new components, more information on these will follow in the next weeks.

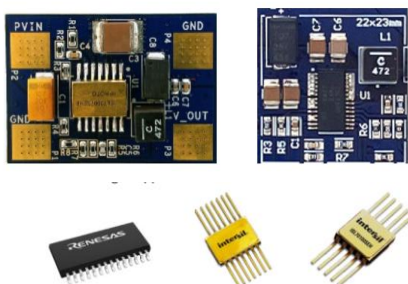
Thank you for your patience – we are glad to be back to support you with Renesas parts.



1A and 3A Ultra-Small Switching Regulators

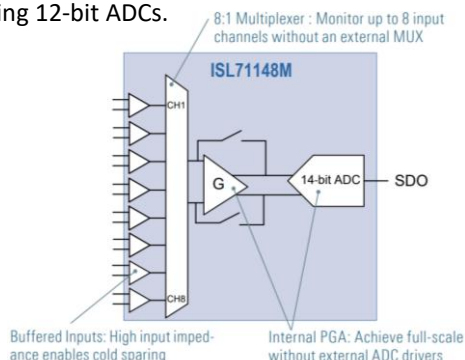
These devices feature extremely high efficiency, achieving $\geq 90\%$ from 1A to 3A (ISL73007) and $\sim 95\%$ from 0.4A to 1A (ISL73006) for 12V to 5V conversions at 500kHz

Evalboards available:



8-Channel Precision 14-bit 900/480ksps SAR ADC

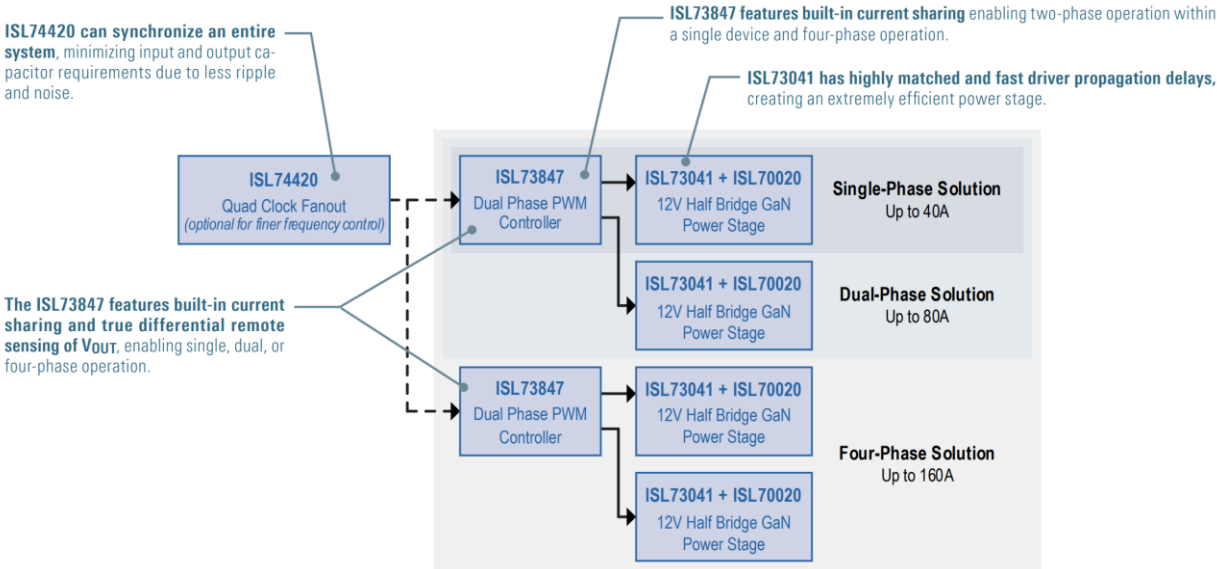
The ISL71148 and ISL73148 excel in analog-to-digital conversion with 14-bit resolution, providing 4 times better measurement accuracy than competing 12-bit ADCs.





Robust, Scalable Multiphase Power for High Performance FPGAs and ASICs

The ISL73847, ISL73041/ISL71441, ISL70020, and ISL74420 work together to provide a reliable, efficient, multiphase power solution for core power rails that have tight tolerances while minimizing the overall solution size. This solution can be scaled to support a wide range of power requirements, from 12A up to 160A or more.



	Part Number	Screening	Package Type
ISL74420 Quad Clock Fanout 3V to 13.2V supply voltage - Sync to external clock or use internal 48MHz oscillator - Phase delay in 15° increments - Pin programmable or I²C/SMBus Interface	ISL74420M	RT Plastic	48 Ld TQFP-EP
	ISL74420SLH	Class Pe	48 Ld TQFP-EP
		Class Ve	48 Ld CFP
ISL73847 Dual Phase PWM Controller 4.5V to 19V supply voltage ±0.67% regulation accuracy (worst case) - True differential remote sensing of V_{OUT} - Single or multiphase operation	ISL73847M	RT Plastic	24 Ld SOICW
	ISL73847SLH	Class Pe	24 Ld SOICW
	ISL73847SEH	Class Ve	24 Ld CFP
ISL73041 Half Bridge GaN FET Driver 4.5V to 5.5V programmable gate drive - Highly matched & fast driver propagation delays 4.75V to 13.2V supply voltage - Bi-directional fault communication with ISL73847	ISL71441M	RT Plastic	20 Ld QFN
	ISL71441SLH	PEMS	20 Ld QFN
	ISL73041SEH	Class Ve	16 Ld CLCC
ISL70020 40V GaN FET - Ultra-low R_{DS(on)}: 3.5mΩ (typ) - Ultra-low total gate charge: 19nC (typ) - Small footprint 4Ld SMD package	ISL70020SEH	RH Hermetic GaN FET	4 Ld CLCC

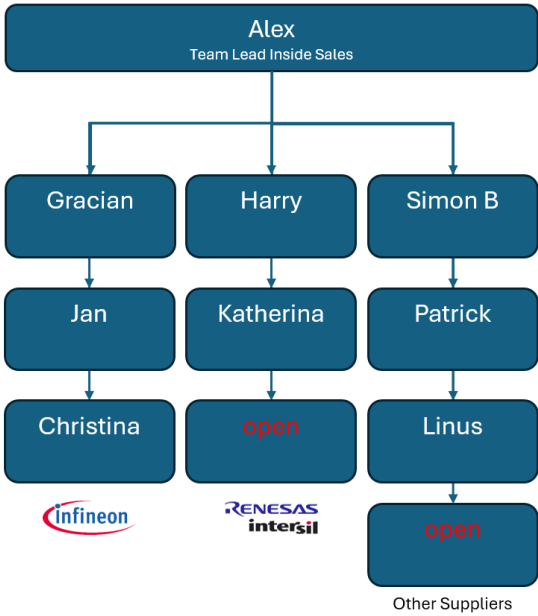
For more information on the Renesas Roadmap
Please contact our Regional Sales Managers or send us a email via
sales @protec-semi.com

Reorganization of Protec's Inside Sales Team

For Infineon / IR requests use
 ➔ SalesTeam1@protec-semi.com

For Intersil requests use
 ➔ SalesTeam2@protec-semi.com

For all Other Manufacturer requests use
 ➔ SalesTeam3@protec-semi.com



All Supported Suppliers by Protec







































