

Battery Fuel Gauge IC Filefish

Easy-to-Start Solution for Li-ion Battery Management Systems

The Filefish is a FIXED firmware solution for Renesas Battery Fuel Gauging IC (FGIC), which requires no additional firmware development. Using this solution, the battery management system (BMS) can be easily and quickly designed, and the time to market can be significantly reduced.





(Using a dedicated tool)

Fuse Blow & software shutdown options

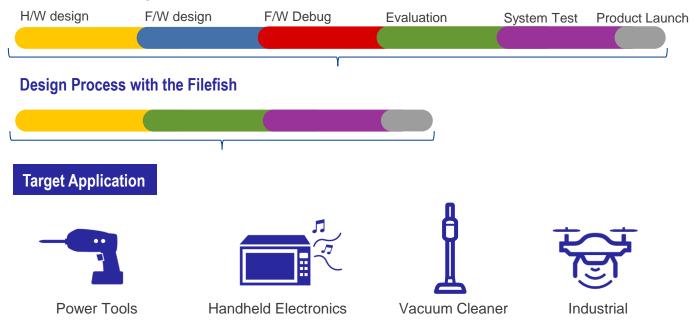
GUI base PC software

(RSB_TOOL2)

Accelerate time to market

Since the Filefish is a fixed firmware (integrated in the FGIC); it eliminates the need for F/W development and hence shortens the time to market.

Conventional Design Process

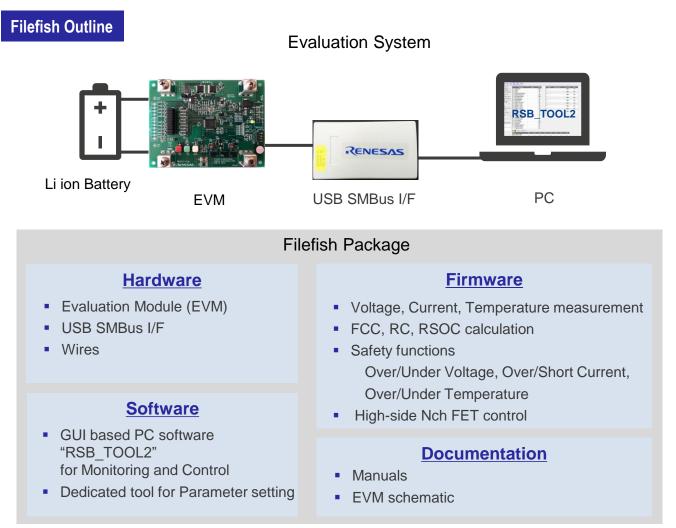


Renesas Electronics

www.renesas.com

R01PF0239EJ0100 2023.06





 $\label{eq:FCC} \mathsf{FCC}: \mathsf{Full}\ \mathsf{Charge}\ \mathsf{Capacity}\ \ \mathsf{RC}: \mathsf{Remaining}\ \mathsf{Capacity}\ \ \mathsf{RSOC}: \mathsf{Relative}\ \mathsf{State}\ \mathsf{Of}\ \mathsf{Charge}$

Comparison : Current solution vs Filefish

	Current Solution	Filefish
F/W Development	Necessary	Not necessary
Required Battery Knowledge	High	Low
Flexibility	High	Low
Suitable Systems	Complex	Simple

Filefish F/W can't be changed.

Filefish Line-up

FGIC	Series Cells	Supply Voltage	PKG
RAJ240100	3 to 10 Cells	4V - 50V	LQFP64 10mmx10mm

To request the Filefish, please contact your regional sales channel. FGIC product information : https://www.renesas.com/us/en