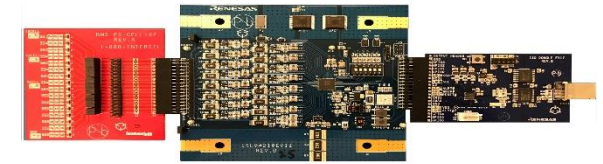


ISL94216 16S BATTERY FRONT END NPI OVERVIEW

JULY, 2020

ISL94216 BATTERY IC SNAPSHOT

WHOLLY INTEGRATED 16-CELL BATTERY FRONT END FOR CHALLENGING INDUSTRIAL ENVIRONMENTS



Features	Benefits	Applications
<ul style="list-style-type: none"> Wholly integrated 16S front end for sophisticated high voltage batteries High accuracy ADC for Vcell and Ipack Rugged monolithic device tested to withstand hot plug events and with higher ESD ratings Both internal and external cell balancing supported via internal FETs and dedicated FET driver pins EVK and GUI for easy out of the box evaluation and development 	<ul style="list-style-type: none"> Total BOM cost and component count reduced >\$1 savings and >20% board space. Integration shortens development time by elimination of component selection, integration and testing. Charging time reduced and uptime maximized by seamless control of external cell balancing FETs. 	<ul style="list-style-type: none"> E-Bikes, wheelchairs, and mobility scooters Energy storage and 48V UPS systems High-voltage Industrial power tools and farm and garden tools

Block Diagram

