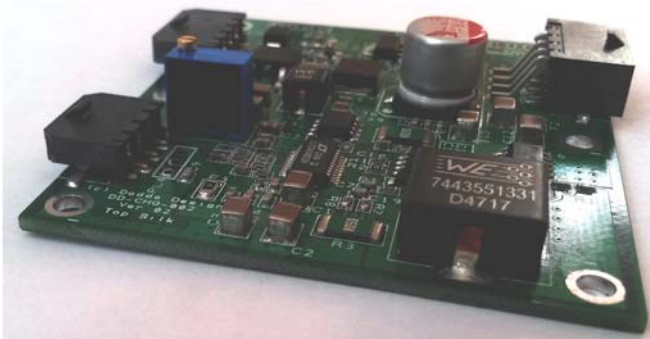


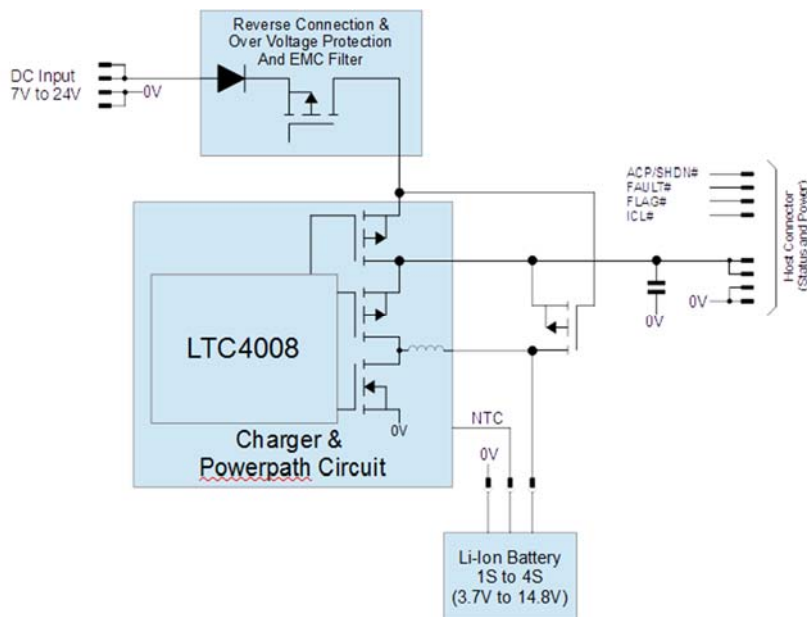
## DD-CHG-002 Lithium Ion Battery Charger Embedded Module



### Features

- Embeddable charger PCBA module for Lithium Ion battery packs
- Universal module for 1S to 4S battery packs
- Safety battery temperature monitoring
- Powerpath management for automatic switchover from battery to DC input
- Can be installed in a system using flying leads, or soldered directly to another PCB
- Customised versions available
- DC input overvoltage protection suitable for use as automotive 'load-dump' protection

### Block Diagram



### Specifications

Compatibility	1S to 4S Lithium Ion Battery Packs
Charging Voltage	Min: 4.0V Max: 17.5V
Charging Current	2A standard, custom versions available
DC Input Voltage Range	Min: 7V, or charge voltage + 2V Max: 24V
DC Input Powerpath Current	5A (can be customised for lower currents)
DC Input Overvoltage Threshold (when fitted)	28V
Battery Pack Temperature Monitoring	10K NTC
Status Indication	Temperature Range Fault DC Input Present Fully Charged
Current Protection	7A Single Blow Fuses fitted to DC Input, System Output and Battery Positive
Temperature - Operating	+0°C to +40°C
Temperature - Storage	-20°C to +60°C
Dimensions	Length: 68mm Width: 60mm Height: 13.5mm
Weight	30g
EMC Certification	EN55022 class B EN61000-4-3 EN61000-4-6
Components	RoHS compliant

### Connections

- Battery Pack – P1 or PL4
- System – P2 or PL2 & PL3
- DC Input – P3 or PL1

### Battery Packs

- Contact Dodds Design for information regarding supply or compatibility of battery packs.

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