

Internet-of-Things Applications

Battery & Energy Products



Global battery manufacturer, ULTRALIFE CORPORATION, brings over 30 years' experience to offer high performing portable power solutions to the internet-of-things sector.

ISO 9001 and ISO 13485 registered facilities produce top quality products for IoT devices, utilizing robust manufacturing processes and continuous improvement, decreasing quality and warranty issues for your customers.

ULTRALIFE batteries are used in the following IoT devices and more:



- Asset Tracking/RFID/GPS
- Smart Security Cards
- Electronic Shelf Labels
- Sensors
- Transmitters/Radio Comms
- Wearable Devices
- Panic Alarms
- Body-worn & Other Cameras
- Handheld Scanners
- LED Lighting
- Metering
- Insulin Pump Patches



in industries including Hospitality, Retail, Energy & Utilities, Government & Defense, Medical & Healthcare and Safety & Security.



Non-Rechargeable Lithium Cells & Batteries Manganese Dioxide (+ Carbon Monofluoride Hybrid) / Thionyl Chloride	Rechargeable Batteries Lithium-ion / Lithium Iron Phosphate
• High Energy Density • Long Run-time • Long Shelf Life • High Discharge Rate Capability	• High Energy Density Available • Monitor State-of-Charge / State-of-Health • Many Communication Protocols Offered • Integrated Charging Capability • Chargers Also Available

Ultralife manufacture off-the-shelf battery packs and chargers (see page 2), plus our in-house mechanical and electrical engineers can design, build, and test custom solutions (example images shown) that are tailor-made to your device in terms of:

- Size and Weight
- Colour and Branding
- Cell Chemistry
- Energy Required
- Temperature Performance
- Rate Capability
- Cycle Life
- Comms. Standard (Optional)



NON-RECHARGEABLE

Thin Cell®



- Average Voltage: 3.0V
- Energy: up to 5.7Wh*
- Thickness: as thin as 1.1mm*
- Available in 9 standard sizes
- Custom sizes upon request

9 Volt



- Average Voltage: 9.0V
- 50% more energy vs. key competitor
- World's longest lasting
- Over 100m sold
- 18% lighter than average alkaline 9V

CR123A



- Average Voltage: 3.0V
- Energy: up to 6.0Wh*
- High pulse discharge of 3,000mA (UB123A)
- Ideal for high-drain devices

Automobile Telematics



- Average Voltage: 16.4V
- Energy: 91.8Wh
- Tested per automotive requirements
- Optional discharge device for safe disposal of old battery

Military Non-Rechargeable



- Average Voltage: 3.0 to 12.0V*
- Energy: 1.5 to 14.4Wh*
- No voltage delay
- Hermetically sealed Ni-plated steel can

ER Cylindrical



- Average Voltage: 3.6V
- ≤30% capacity performance (avg. across temperatures vs. competition)*
- Available in spiral or bobbin (sizes from Sub AAA to DD)

PMX Cylindrical



- Average Voltage: 3.9V
- Extended temperatures capabilities from -20°C to +165°C
- Available in spiral (sizes from ½ AA to DD)

XR Cylindrical



- Average Voltage: 3.0V
- Energy: up to 48.0Wh*
- High capacity and long shelf-life
- No voltage delay
- CR123A-size cell has 2.0Ah capacity

RECHARGEABLE PACKS

Entellion™



- Average Voltage: 3.7 to 28.8V*
- Energy: 4.2 to 92.2Wh*
- Easy to transport (<100Wh)
- Housed in tough, plastic casing
- Embeddable or hot-swappable*

Shrink-Wrapped



- Average Voltage: 3.6 to 14.8V*
- Energy: 3.3 to 77.0Wh*
- Easy to transport (<100Wh)
- Plastic wrapping with a range of connectors (e.g. flying leads)

Background colour represents chemistry used:

*product dependent ^average across temperatures

LiMnO₂

Li/SOCl₂

Li/SO₂Cl₂

Hybrid (LiCFx/MnO₂)

Li-ion