

Applications



Smart Logistic Labels

- Active labels that communicate identity & sensor data wirelessly
- Package-level digital traceability from factory to destination



Labels for Cold-Chain Monitoring

- Wireless temperature logging from -30°C (-22°F) to +60°C (140°F)
- Continuous temperature and humidity monitoring even off-line



Pharmaceutical Traceability

- Product traceability from factory to point-of-care
- Record location, temperature, humidity, shock, and box opening data off-line



Drug Delivery, Diagnostics & Cosmetic Patches

- Flexible patches for enhanced delivery of drugs and creams
- Low cost, connected diagnostic tests



Tags for Hospital & Exhibitions

- Tags that track identity and location wirelessly
- Real-time visibility of people movements



Active Promotional Materials

- Enable unique experiences using light and sound on bottles and boxes activated by NFC or BLE.



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THE WORLD'S LEADING SUPPLIER CUSTOM THIN FILM FLEXIBLE BATTERIES

Environmentally safe IoT BATTERIES

POWERING THE FLEXIBLE WORLD

- Founded in 2015 by researchers from the University of Cambridge, UK
- Dedicated to the research, development, manufacture & sales of flexible batteries
- Chaired by a Fellow of the Royal Academy of the Engineering with over 30 years' experience in flexible electronics
- R&D centres in Cambridge, UK and Shenzhen, China, and in-house volume manufacturing in China

Our Batteries:

- Are available in 1.5V, 3.0V, 4.5V and 6.0V voltages with a range of capacities
- Can provide peak pulse currents up to 500mA – powering wireless communications including RFID, Bluetooth™, Sigfox, LoRa, moity, Zeta & NB-IoT, LTE-M
- Are flexible, less than 0.8mm thick, and can be used in label printers
- Are safe – compliant with EU RoHS and international air and maritime transport regulations
- Can be disposed of in household waste, containing no toxic or heavy metals
- Are manufactured in-house with digital control of the entire process from design to manufacture with 100% in-line QA testing

Our Services:

Zinergy provides battery design and integration consultancy services:

- New battery designs produced in weeks
- Transfer to production in a few weeks
- Batteries can be printed directly onto customer-supplied inlays



Batteries supplied cut to size for pick-and-place



Batteries supplied on reels for roll-roll processing



Batteries printed directly onto inlays and flexi-circuits

Model	1.5V-20mAh-3030IC	1.5V-40mAh-5238IC	3.0V-35mAh-7040IC
Nominal Voltage	1.5V	1.5V	3.0V
Nominal Capacity	20 mAh	40 mAh	35 mAh
Max Pulse Current	15 mA	20 mA	50 mA
Working Temperature	-30°C to +60°C		
Size	30 x 30 mm	52 x 38 mm	70 x 40 mm
Thickness	0.7 mm	0.7 mm	0.8 mm

Model	3.0V-20mAh-R55IS	3.0V-140mAh-125075IS	6.0V-80mAh-128130IS
Nominal Voltage	3.0V	3.0V	6.0V
Nominal Capacity	25 mAh	140 mAh	80 mAh
Max Pulse Current	25 mA	100 mA	500 mA
Working Temperature	-30°C to +60°C	-20°C to +60°C	-10°C to +60°C
Size	Diameter 55 mm	125 x 75 mm	128 x 130 mm
Thickness	0.8 mm	0.8 mm	0.65 mm



Thin and Flexible



Printing Manufacture



Safe and Eco-friendly



Customized Design



Air-safe Transportation