



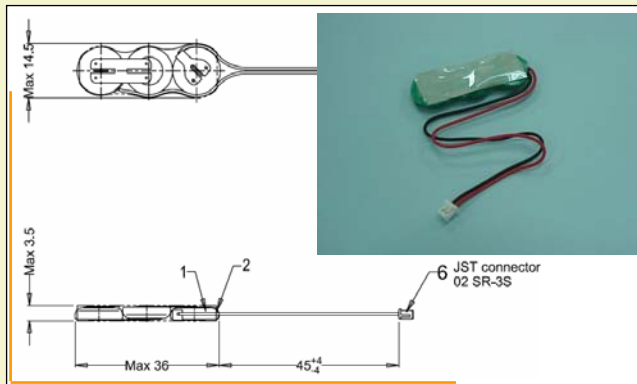
Memory Backup Battery for Rugged Mobile Designs.
New generation of robust and trusted portable wireless computing applications require **independent and continuously available data memory** independent from the main battery of the system. This memory requires a battery to backup data during any unforeseeable **power supply interruption** to store the **RAM data on hard disc.**

Battery challenge.

The main challenges for the battery are **ability to handle high discharge current, consistency in performance, 5-7 years of lifetime in the application, reliability, easy charging, and low service effort.** New generation of Ni-MH batteries for Memory backup offer **low internal resistance** for high peak current loads and high **overcharge stability** for simple charging solutions. The low self discharge and high deep discharge stability of the cell fulfils the demand for extended shelf life specially for solid high tech consumer products.

Technical solution

The MBU20 cell with a thickness of only 2.25mm and a capacity of 20mAh out of the powerful 85 family of Ni-MH button cells from VARTA Microbattery, is specially designed for extended back-up times and fail-safe memory backup solutions.



Characteristics	3 / MBU20
Voltage level	3.6V (other voltages possible)
Max peak discharge current	100mA (60mA cont.)
Capacity	20mAh
Discharge Temperature range	-20° C to +65° C
Overcharge capability	0,3mA continuous
Weight per cell	0,9g
Cell Size	Ø 11,5mm x height 2,25mm

Memory Backup Battery

VARTA Microbattery's Ni-MH MBU 20 batteries (powerful family) offer rechargeable battery solutions with reliable power for supplying new generation of RTC chip solutions for robust and trusted mobile applications.

http://www.varta-microbattery.com/en/oempages/rech_ni-mh_button/rech_ni-mh_button_en.php

- wide temperature range from -20 to +65° C
- long lifetime – up to 6 years and above
- high reliability
- high current capability up to 60mA continuous
- design flexibility on voltage level from 1.2V to 7.2V
- design flexibility on battery shape side-by-side or stacked, SMD mounting or wire connector
- simple charging system continuous charging possible
- UL recognized cell
- environmentally friendly Ni-MH technology

Memory Backup for Rugged Mobile Designs

VARTA Microbattery GmbH
Daimlerstraße 1
73479 Ellwangen/Germany
Tel +49 79 61 921-387

www.varta-microbattery.com