



### RTC Backup Battery.

New generation of **Ultra Mobile PC** and **Netbooks** require new solutions regarding **size, weight and cost** of all components inside a system. The battery can take a significant share in this and will reduce the required **board space** from 314mm<sup>2</sup> for the CR2032 → **36mm<sup>2</sup>** for the **RTC6** cell.

### Battery challenge.

The main challenges for the battery are lifetime in the application, used **board space, easy charging, cost** and service. Ni-MH batteries for RTC backup allow low system voltage for low energy demand 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 high tech consumer products.

### Technical solution

The RTC6 cell out of the powerful family of Ni-MH button cells from VARTA Microbattery is specially designed for low discharge currents and reliable backup solutions with cell thickness in the height of SMD semiconductor components.



Characteristics	RTC 6
Voltage level	1.2V (other voltages possible)
RTC discharge current	< 6 $\mu$ A
Capacity	> 7 mAh
Discharge Temperature range	-20° C to +65° C
Overcharge capability	0,18mA continuous
Weight	0,29g
Size	Ø 6,9mm x height 2,15mm

### RTC Backup Battery

VARTA Microbattery's Ni-MH RTC 6 batteries (powerful family) and V15H (robust family) offer rechargeable battery solutions with reliable power for supplying new generation of RTC chip solutions for small and ultra small mobile computing applications. [http://www.varta-microbattery.com/en/oempages/rech\\_ni-mh\\_button/rech\\_ni-mh\\_button\\_en.php](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 capacity capability up to 8 mAh @ 6 $\mu$ A

- simple charging system continuous charging possible
- UL recognized cell
- environmentally friendly Ni-MH technology

## RTC Backup for UMPC

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