VARTA

Bluetooth System.
Bluetooth provides a way to connect and exchange information between devices such as mobile phones, telephones, laptops, personal computers, printers, GPS receivers, digital cameras, and video game consoles over a secure, globally unlicensed Industrial, Scientific, and Medical (ISM) 2.4 GHz short-range radio frequency bandwidth. One of the earliest and most popular applications are wireless headsets for mobile phones.

Battery challenge.
Weight and size is one of the most important features for a wearable headset followed by long usage time (standby and talk) as well as long shelf life respectively steady availability in charged state.

Technical solution
The V70HE cell out of the new HighEnergy family of Ni-MH button cells from VARTA Microbattery is specially designed for high energy density, low weight, high stability as required by wireless applications. Next generation of Bluetooth chipsets for mono headsets require voltage levels of 2.2-2.4V and open the door for high power, low cost Ni-MH button cell solutions.

Characteristics	2/V70HE Battery
Voltage level	2.4V (other voltages possible)
Max discharge current	140mA continuous
Capacity	70mAh
Overcharge capability	2.1mA for 5 years
Weight	4.5g
Capacity retention	70% after 6 month at RT

Bluetooth Battery
VARTA Microbattery's Ni-MH HE batteries (HighEnergy family) offer rechargeable battery solutions with reliable power for supplying bluetooth chipsets of the newest generation. Recommended configurations: 2/V70HE or 3/V70HE

- **Very high energy density**
- **No safety control electronic required**
- **high reliability – by special sealing construction with new plastic materials**
- **high current capability**
- **Low weight**
- **design flexibility on battery shape side-by-side or stacked and voltage level from 1.2V to 3.6V**
- **simple charging system – continuous charging possible**
- **UL recognized cell**
- **environmentally friendly Ni-MH technology**

Bluetooth headset

VARTA Microbattery GmbH
Daimlerstraße 1
73479 Ellwangen/Germany
Tel +49 79 61 921-0

www.varta-microbattery.com

BU-2 rh 9/2008 V1