

**Press Release**  
**November 2007**

## **Epson Commercializes Highly Efficient Non-Contact Power Transmission Module**

***Munich, November 28th 2007: Seiko Epson Corporation ("Epson") today announced it has commercialized a highly efficient module enabling non-contact power transmission. The company started sample shipping of the S4E16402/SE16403 module on November 15, 2007. (Each set consists of a primary and a secondary module.)***

This product uses new Epson technology to allow high-efficiency non-contact power transmission. Since all components necessary for non-contact power transmission are built in to the module, it is simple to install in customers' devices.

The product is made up of a power transmission module (primary module: S4E16402) and a power receiving module (secondary module: SE16403). Using these two elements as a set enables transmission of up to 0.5 W (5 V/100 mA). The thin, flat coil used for power transmission results in a compact design, with the secondary module having an overall thickness of just 2.3 mm. Electromagnetic shielding fitted to the back of the transmission surface in each module reduces interference with other electronic components contained within the same device.

The module enables customers to incorporate advanced safety measures for non-contact power transmission into their designs, with built-in safety features including metal detection, secondary detection and automatic cut-off in the event of excess current or abnormal temperature.

With the rapid increase of mobile devices, such equipment has come to be used in a more diverse range of environments. This product solves problems associated with conventional external power supplies using contact terminals, namely contact terminal degradation and insufficient power supply due to bad connections. Customers can also use it to create mobile devices for applications that could previously only be powered by a conventional plug-in power supply. Moreover, the module is highly suited to creating devices with more sophisticated designs, since there is no need for customers to place a power supply terminal on the exterior of their devices.

The 0.5 W output unit outlined above is the first in an array of module products of varying output levels that Epson plans to produce using its newly-developed non-contact power transmission technology, enabling the company to continue meeting diverse customer needs.

#### Product specifications

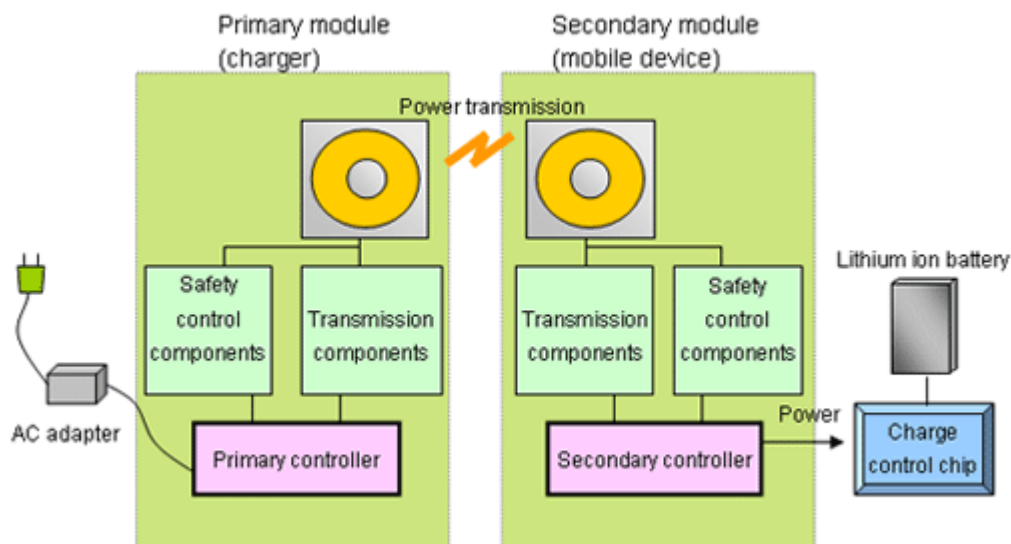
Input voltage		5.0 V $\pm$ 0.25 V
Output voltage/current		5.0 V/max. 100 mA
Positioning margin degree		horizontal 1 mm, vertical 3 mm
Size	(primary)	45 x 33 x 7.1 mm
	(secondary)	22 x 22 x 2.3 mm

#### Target applications

- Devices prone to charging deficiencies as a result of power supply terminal degradation or bad connections
- Devices where safety cannot be assured if power supply terminals are fitted
- Devices where terminal-free power supply is desired to achieve a more sophisticated design

## Sample application

### Charging mobile device



### About Epson

Epson is a global leader in imaging products including printers, 3LCD projectors and small- and medium-sized LCDs. With an innovative and creative culture, Epson is dedicated to exceeding the vision and expectations of customers worldwide with products known for their superior quality, functionality, compactness and energy efficiency.

Epson is a network of 87,626 employees in 117 companies around the world, and is proud of its ongoing contributions to the global environment and to the communities in which it is located. Led by the Japan-based Seiko Epson Corp., the Group had consolidated sales of 1416 billion yen in fiscal 2006.

### About Epson Europe Electronics GmbH

Epson Europe Electronics GmbH is a marketing, engineering and sales company and the European Headquarters for Electronic Devices of the Seiko Epson Corp., Epson Imaging Devices Corp. and Epson Toyocom Corp., Japan.

Headquartered in Munich/Germany, Epson Europe Electronics GmbH has several European sales representatives and has a European-wide network of distributors. We provide value added services for Semiconductors, Displays and Quartz Devices targeted to the mobile communication, automotive and home visual market. Epson products are recognised for energy saving, low power, small form factors and rapid time to market. Information about Epson Europe Electronics GmbH is available in the Internet under [www.epson-electronics.de](http://www.epson-electronics.de).

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