

Evolving Wireless Power and Data Interconnects

<https://marketpublishers.com/r/EC5E330C337EN.html>

Date: October 2014

Pages: 0

Price: US\$ 2,750.00 (Single User License)

ID: EC5E330C337EN

Abstracts

What effect will the growing use of wireless and contactless connectivity have on the traditional connector market and what opportunities will this technology provide designers of electronic products?

The explosive market for mobile devices has begun to change the paradigm of connectivity with demand for interfaces that free the device from the tether of signal and power cables. A host of both short and long range wireless connectivity standards such as Wi-Fi, Bluetooth and RFID offer wireless links that are effectively replacing traditional connectors on an expanding universe of remote and mobile devices. At the same time, wireless charging technology offers the convenience of consumer-friendly battery charging while eliminating the need for a power connector on the device.

As more electronic devices become mobile, the implications for standard copper interfaces continue to grow. The expanding array of wireless interconnection options is providing new challenges and opportunities for designers of electronic devices as well as connector manufacturers.

So, how will wireless and contactless connectivity effect the traditional connector market? What are the implications on copper and fiber interconnects as we know them today? Bishop's new report – Evolving Wireless Power and Data Interconnects – discusses these issues and more, as the demand for wireless alternatives races ahead.

This report examines:

The basic characteristics of wireless and contactless technology, reviewing advantages and limitations along with examples of typical applications where the technology has been implemented.

The effect contactless interconnects can have on data rates and system packaging.

The use of millimeter wave transmission as a possible solution to the looming shortage of available frequency bands.

Which market sectors will benefit most from wireless and contactless connectivity and will the Internet of Things spur the evolution of this technology?

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