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A wireless embedded system adds a wireless communication link to the mix. The cost of silicon chips continues to fall exponentially over time, and in many cases, the cost of RFICs (Radio Frequency Integrated Circuits) is lower than that of the wire and connectors

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that they replace.

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Although the traditional definition of an embedded system focuses on its real-time aspects, not all embedded systems have real-time requirements. With the widespread adoption of microcontrollers in everyday items such as TV remote controls, wireless car keys, and toys, a new class of embedded systems has emerged.

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and more digital, connected and  
automated. It is a technology that is  
often overlooked is an embedded  
system. It is an essential part of

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electronics. If you talk about technology, you think about a mobile, laptop, computer, and cameras, etc.

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make use of numerous embedded systems ranging from telephone switches for the network to mobile phones at the end-user. Computer networking uses dedicated routers and Network Bridge to route data.

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WiMax, Bluetooth, Wi-Fi, Femtocell and 4G are some of the most significant standards of Wireless technology for the next generations. Radio, Mobiles, Internet, etc., all use technological advancements in wireless data transmission systems that carry invisible electromagnetic waves to transmit data over long distances within a short

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amount of time.

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The book explores the emerging use of embedded systems and wireless technologies from theoretical and practical applications and their applications in agriculture, environment,

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public health, domotics, and public  
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An embedded system is a computer system—a combination of a computer processor, computer memory, and input/output peripheral devices—that

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has a dedicated function within a larger mechanical or electrical system. It is embedded as part of a complete device often including electrical or electronic hardware and mechanical parts. Because an embedded system typically controls physical operations ...

## **Embedded system - Wikipedia**

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embedded system development methodology. When securing a system, we strive to achieve three goals: confidentiality, integrity, and availability, which are often referred to as the CIA triad for information security. The CIA

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triad is defined for embedded systems as follows:

- Confidentiality ensures that an embedded system's

### **Secure Embedded Systems**

The overall embedded systems market has evolved considerably in the last few years. This includes the technology and industries served. With the advent of IoT

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and the Industrial IoT (IIoT), embedded systems technology has become an enabler for the rapidly expanding world of smart and connected IoT ecosystems.

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Thread is an IoT wireless technology that is primarily used to connect and control

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products in the home. For ease of integration with an IoT system, it provides a simplified bridge between a Thread mesh network and the Internet. It is an open, IPv6 based protocol built on the IEEE802.15.4 link layer and other standards (like 6LoWPAN).

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