

# Designing Embedded Systems with PIC<sup>TM</sup> Microcontrollers: Principles and Applications

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*This closing chapter surveys techniques of connectivity and networking, an essential field of activity in the current world of embedded systems.*

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- 2.1. IrDA and the PIC Microcontroller

### **3. Radio Connectivity**

- 3.1. Bluetooth
- 3.2. Zigbee
- 3.3. Zigbee and the PIC Microcontroller

### **4. Controller Area Network (CAN) and Local Interconnect Network (LIN)**

- 4.1. Controller Area Network (CAN)
- 4.2. CAN and the PIC Microcontroller
- 4.3. Local Interconnect Network (LIN)
- 4.4. LIN and the PIC Microcontroller

### **5. Embedded Systems and the Internet**

- 5.1. Connecting to the Internet with the PIC Microcontroller

### **6. A Conclusion**

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**Appendix 1:** The PIC 16 Series Instruction Set

**Appendix 2:** The Electronic Pingpong, Circuit Diagram and Program Listing

**Appendix 3:** The Derbot AGV, Hardware design details

**Appendix 4:** Basics of AGVs

**Appendix 5:** The PIC 18 Series Instruction Set

**Appendix 6:** Essentials of C