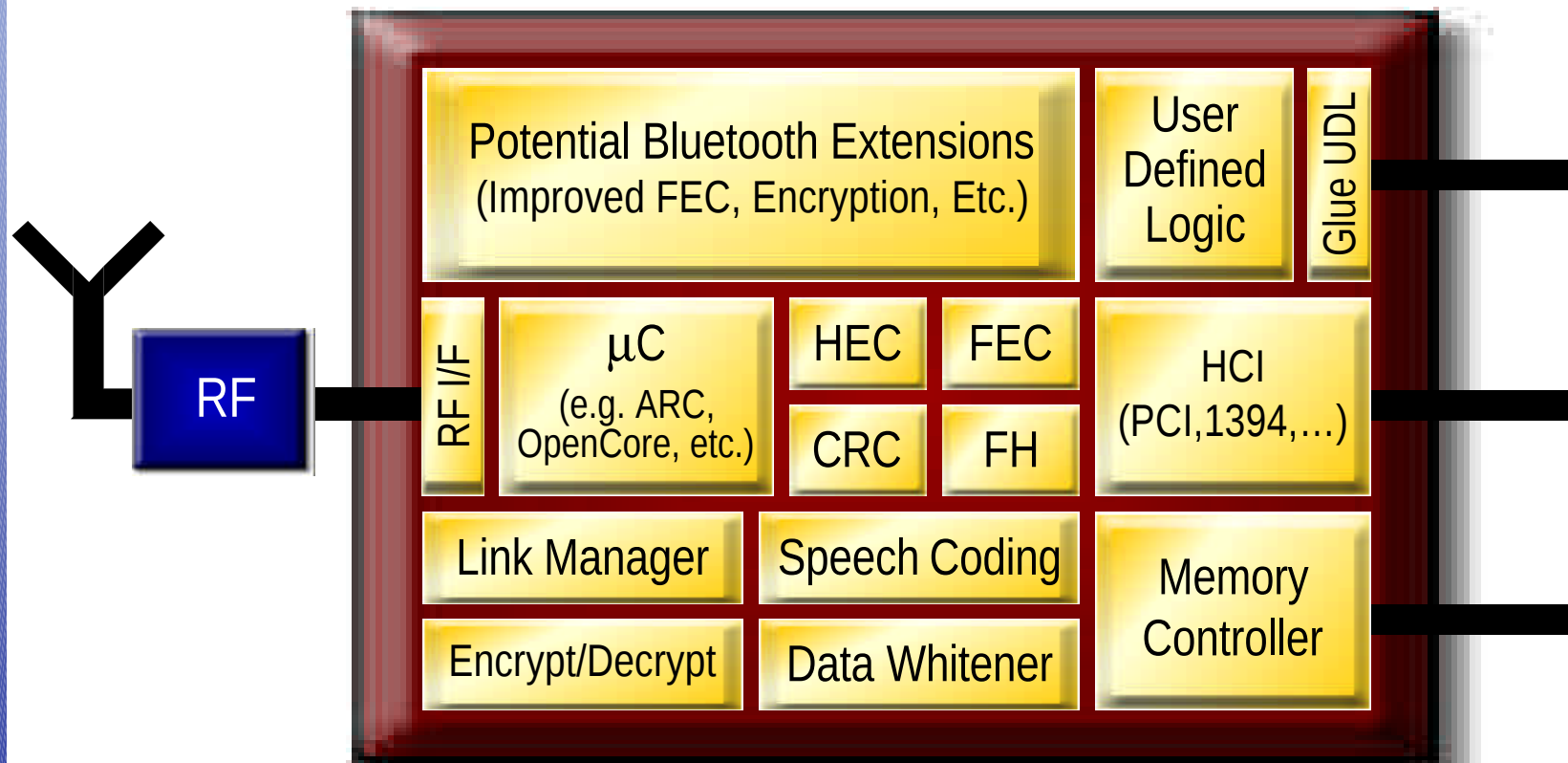


Xilinx in Bluetooth

Opportunities for Spartan II and CoolRunner



T o m o r r o w

T o d a y

Analog	System Logic	Block Logic	Component Integration
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Xilinx in Bluetooth

◆ Today

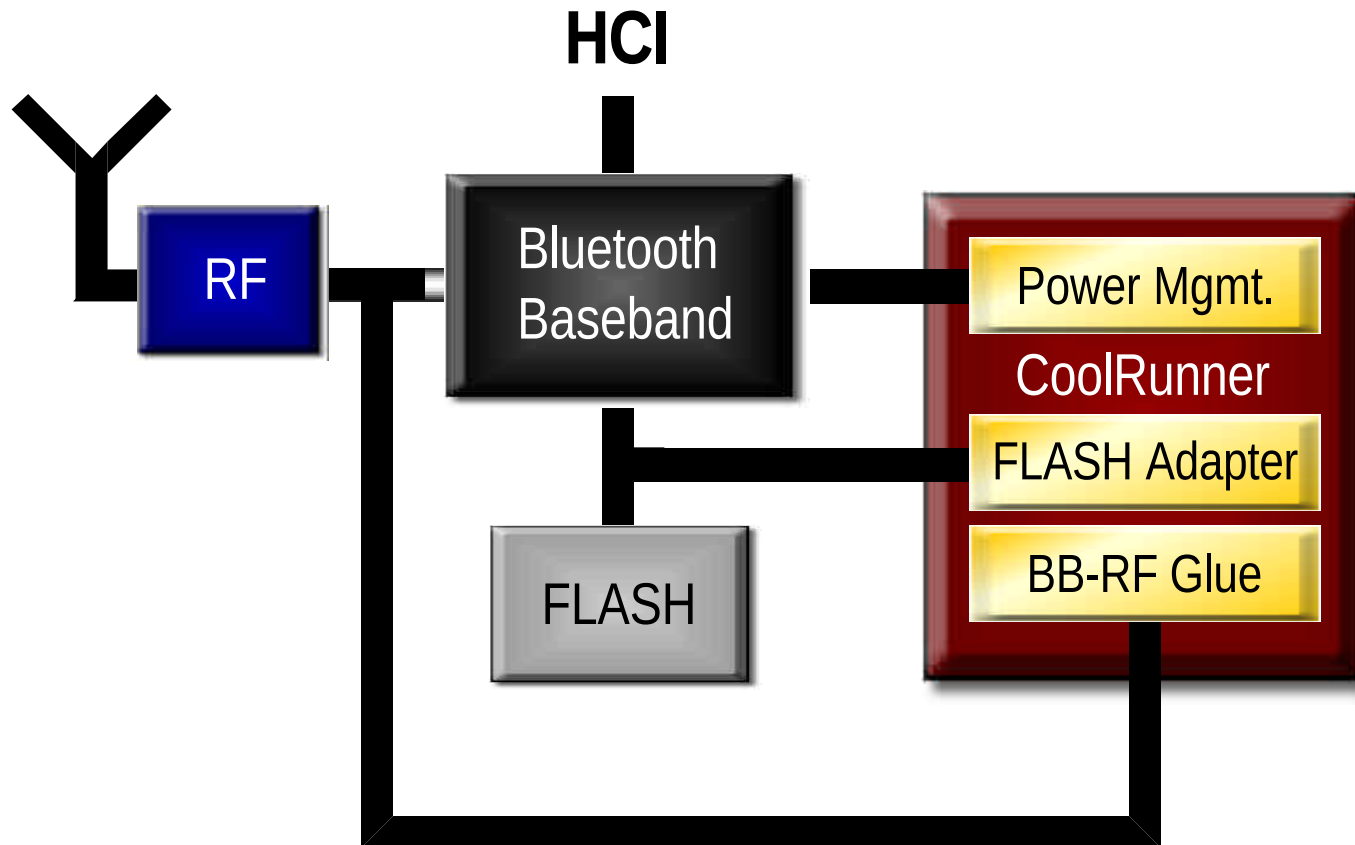
- Component integration
- Power Management
- HCI bridging
- System integration

◆ Tomorrow

- Custom configurations and Bluetooth extensions
 - Multi-RF access points
 - Enhanced Bluetooth solutions
 - Derivative “Bluetooth-based” solutions

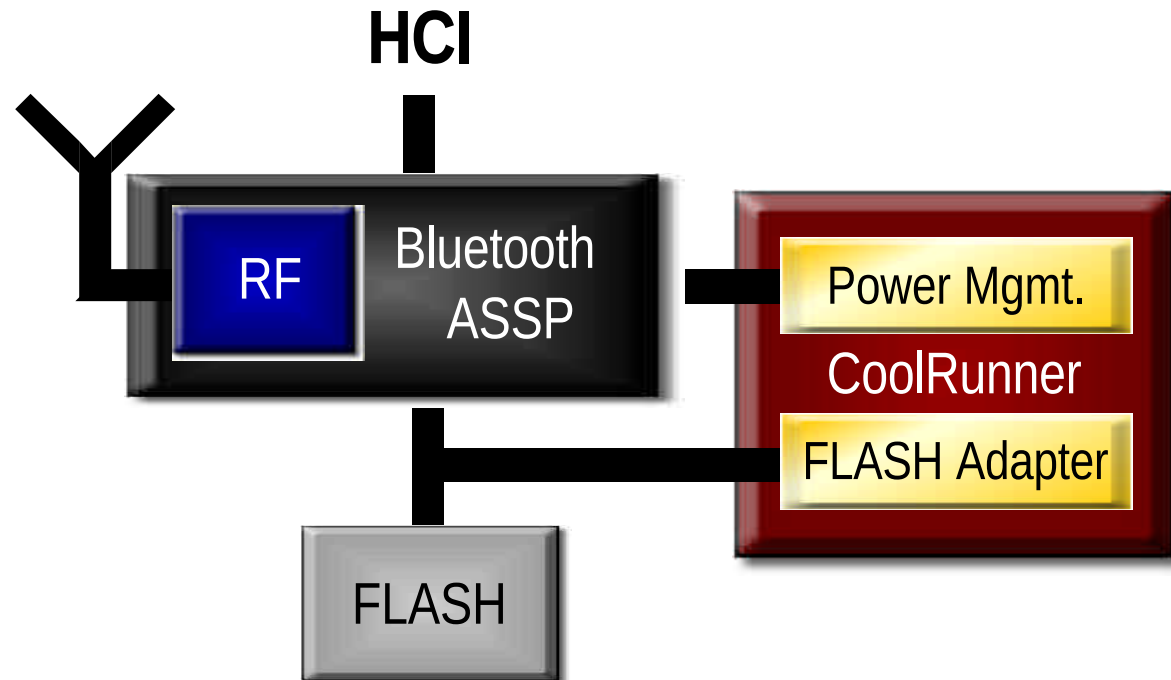
Xilinx in Bluetooth Today (1)

CoolRunner Component Integration and Power Management



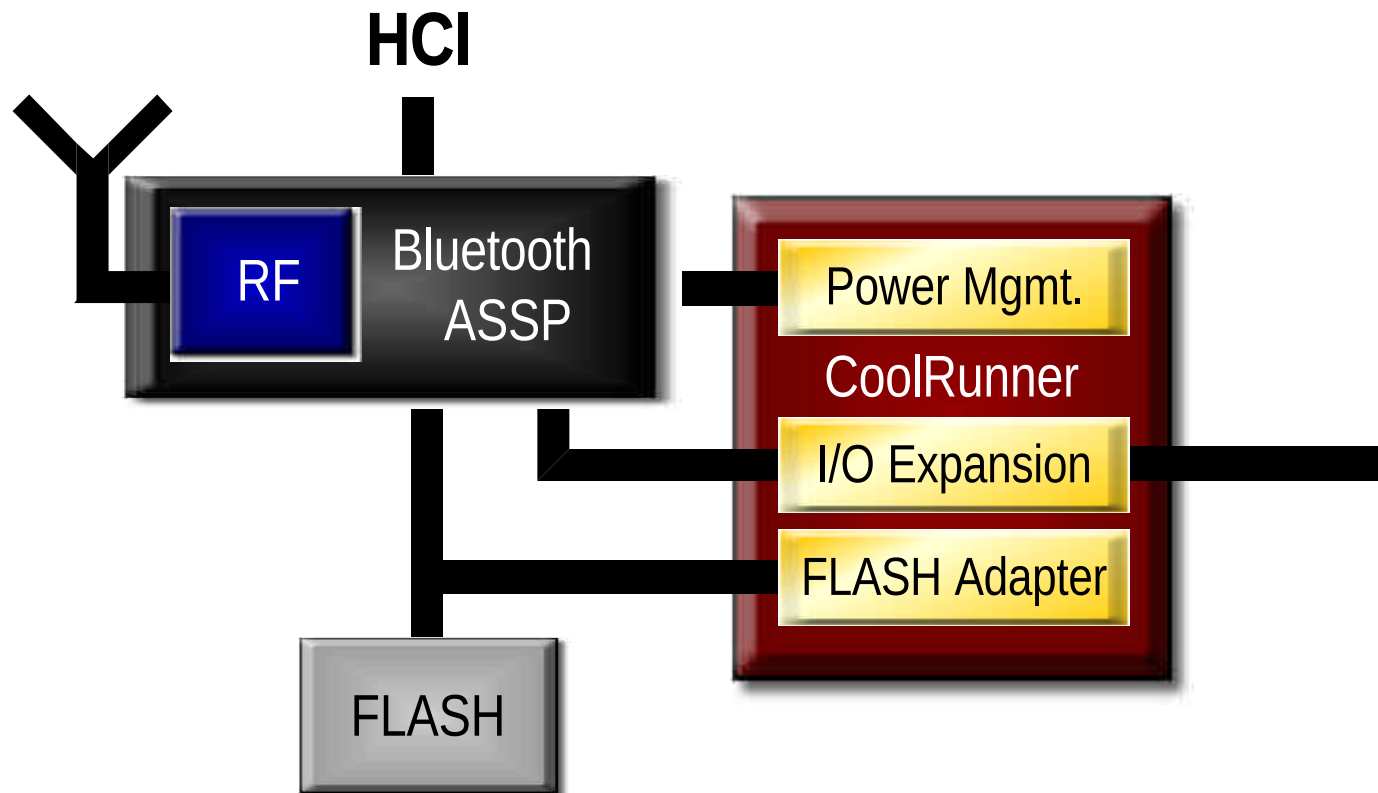
Xilinx in Bluetooth Today (2)

CoolRunner Component Integration and Power Management



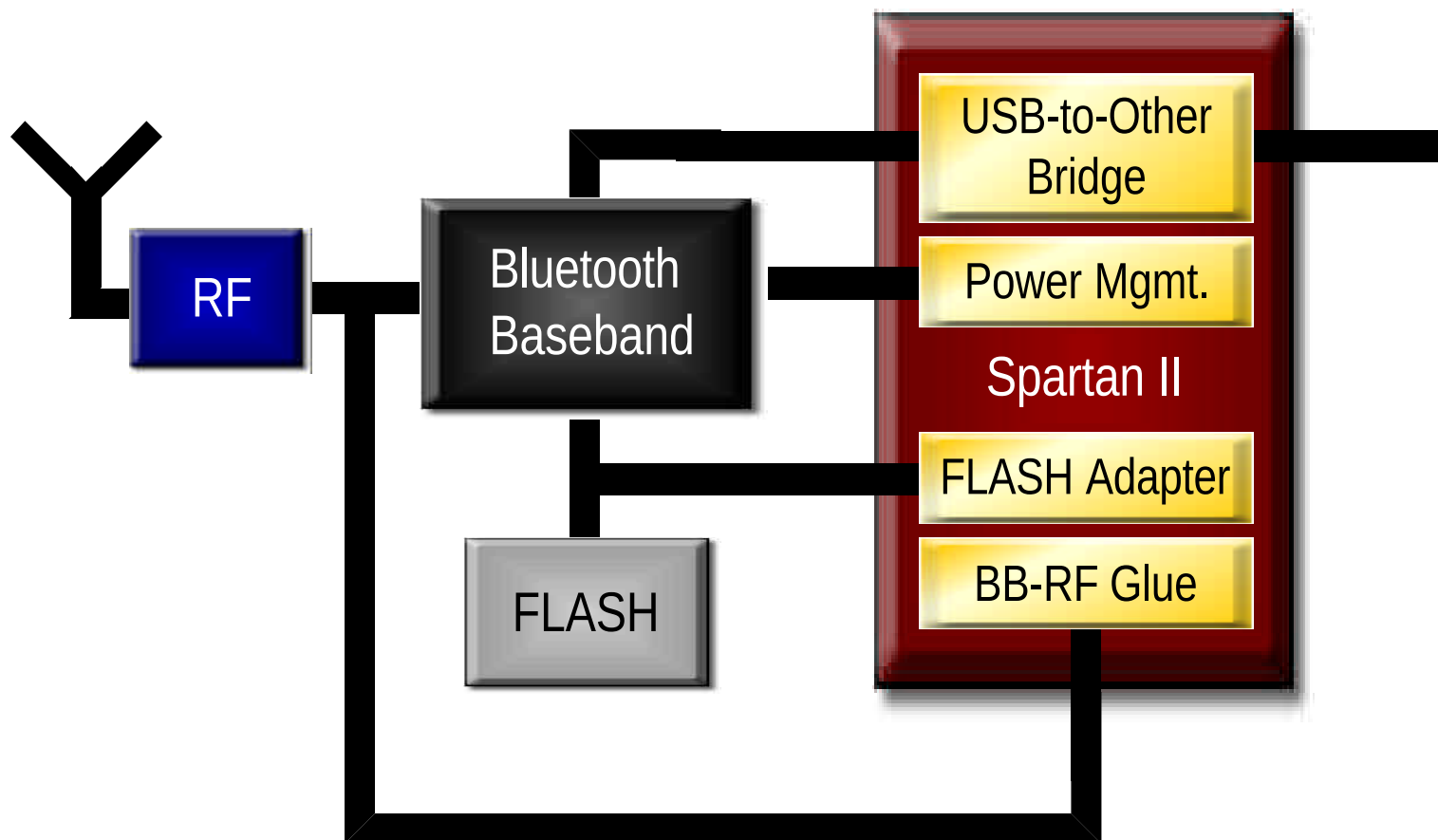
Xilinx in Bluetooth Today (3)

CoolRunner Component Integration, Power Management, and System Expansion



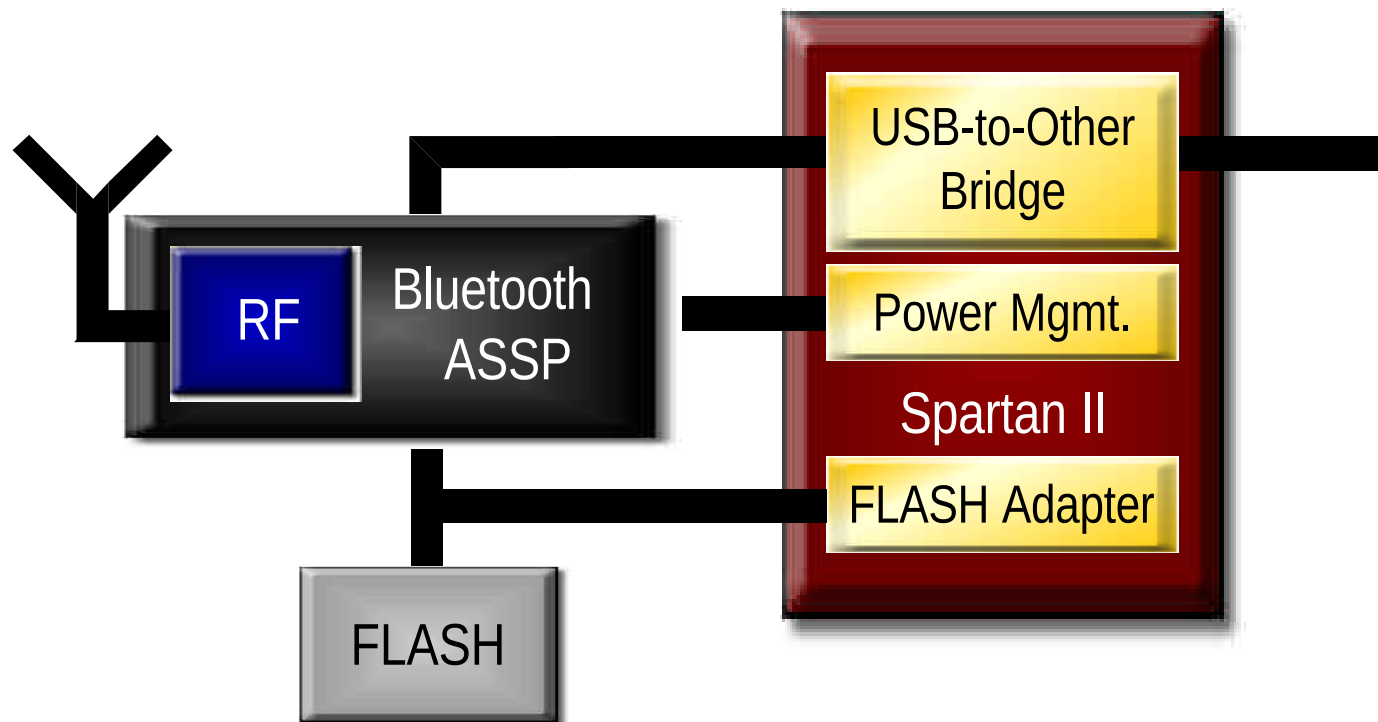
Xilinx in Bluetooth Today (4)

Spartan II Component Integration, Power Management, and HCI Bridging



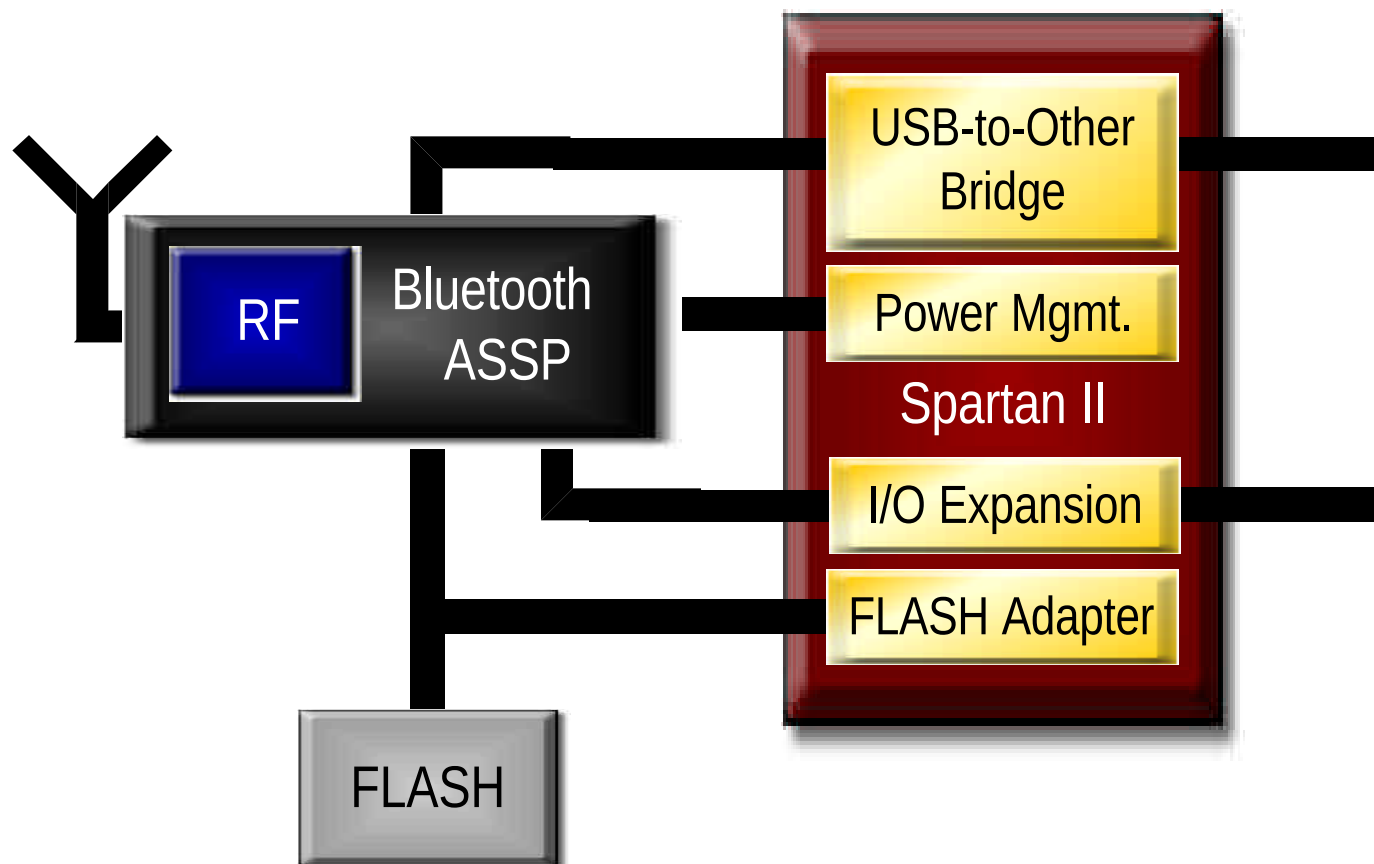
Xilinx in Bluetooth Today (5)

Spartan II Component Integration, Power Management, and HCI Bridging



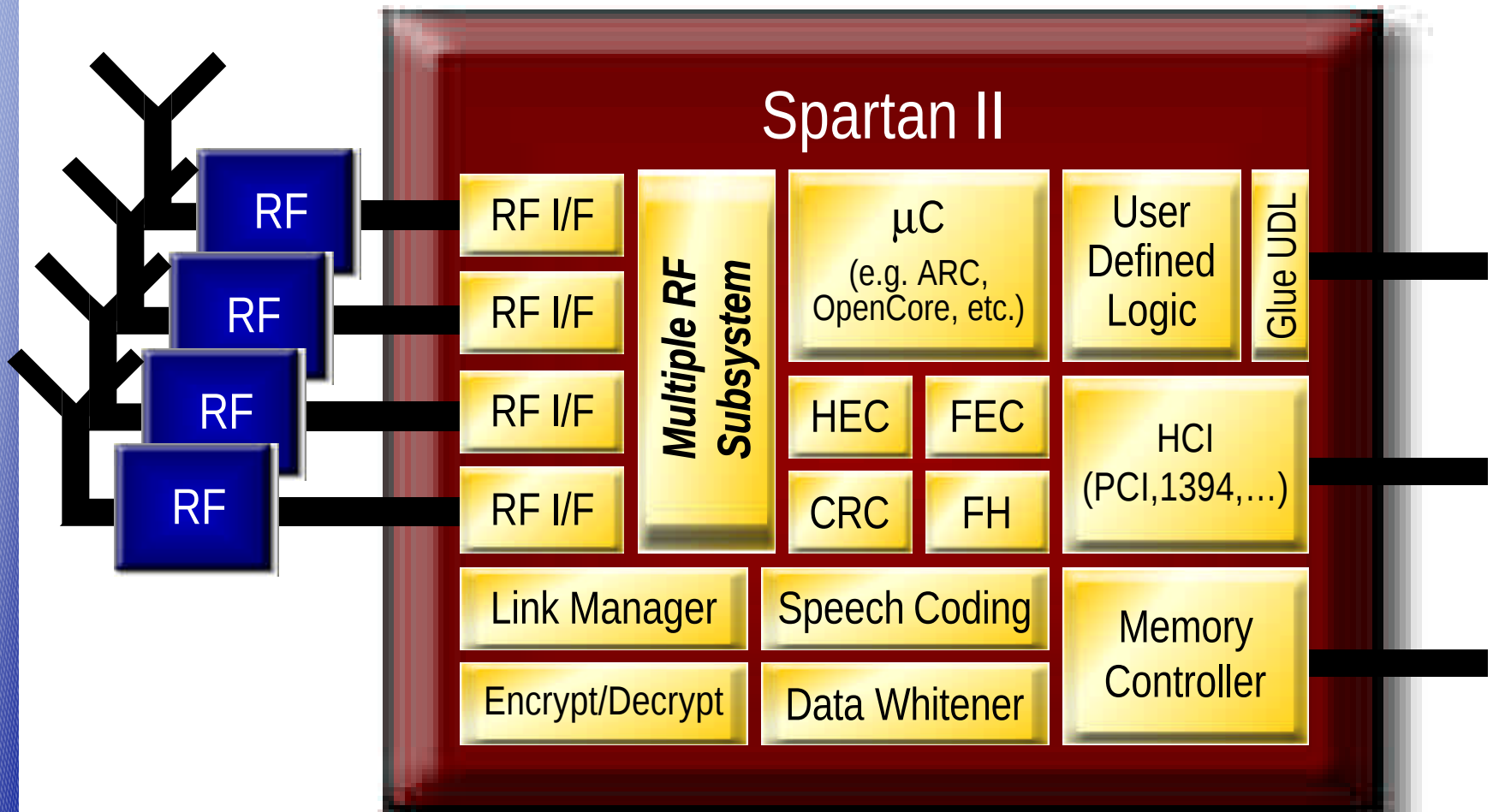
Xilinx in Bluetooth Today (6)

Spartan II Component Integration, Power Management, HCI Bridging, and System Expansion



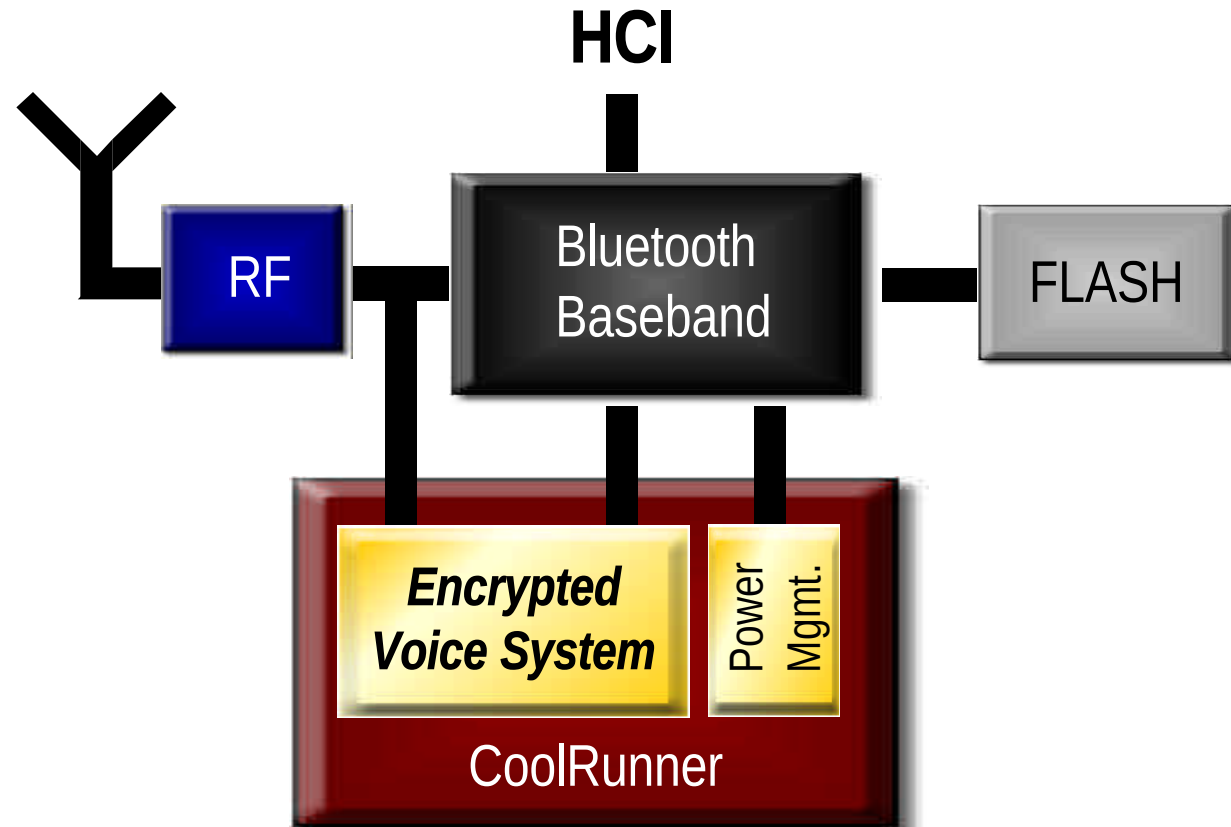
Xilinx in Bluetooth Tomorrow (1)

Spartan II Custom Baseband with Multiple RFs



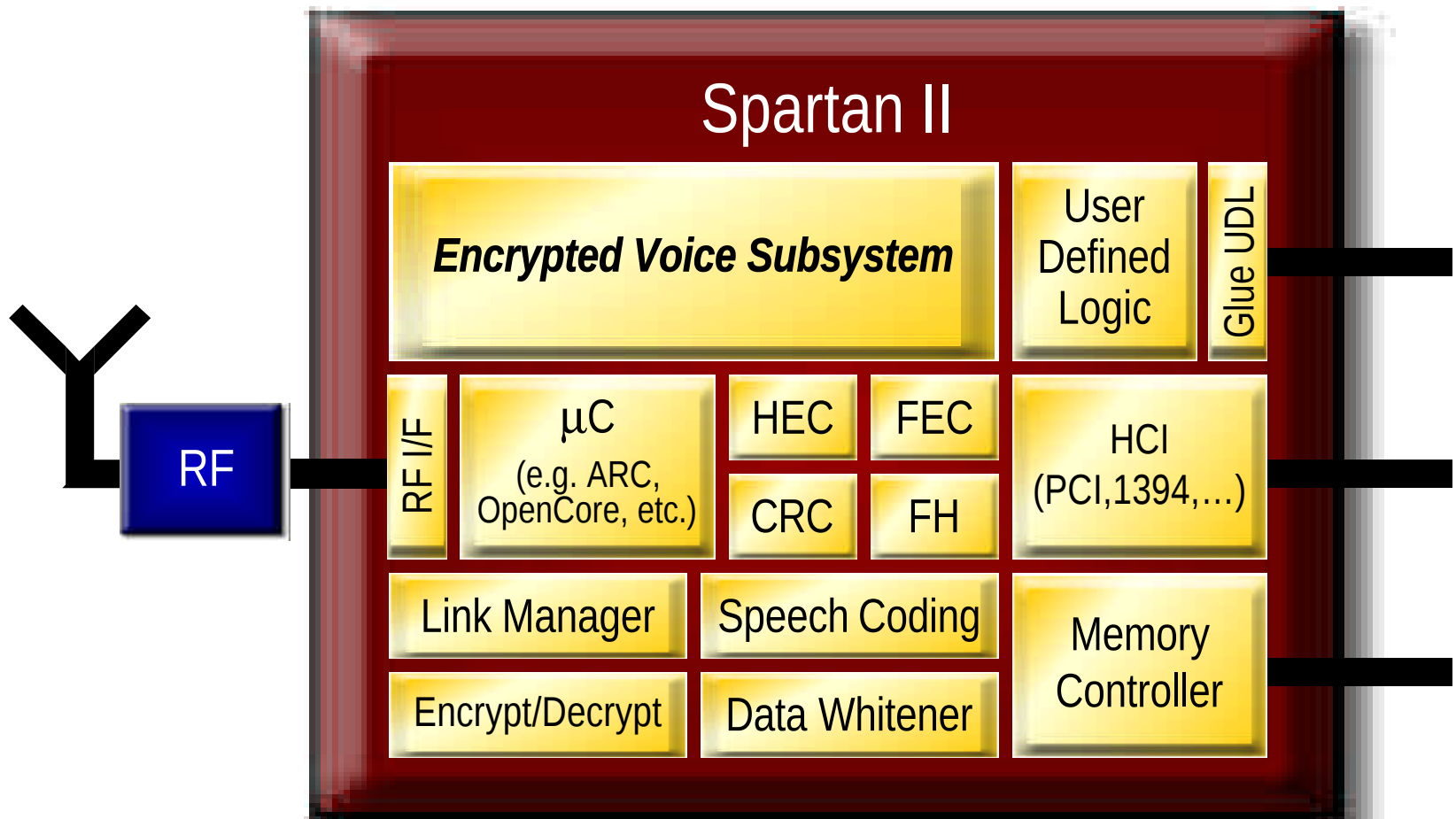
Xilinx in Bluetooth Tomorrow (2)

*CoolRunner with Power Management and
Custom Voice Encryption Extension*



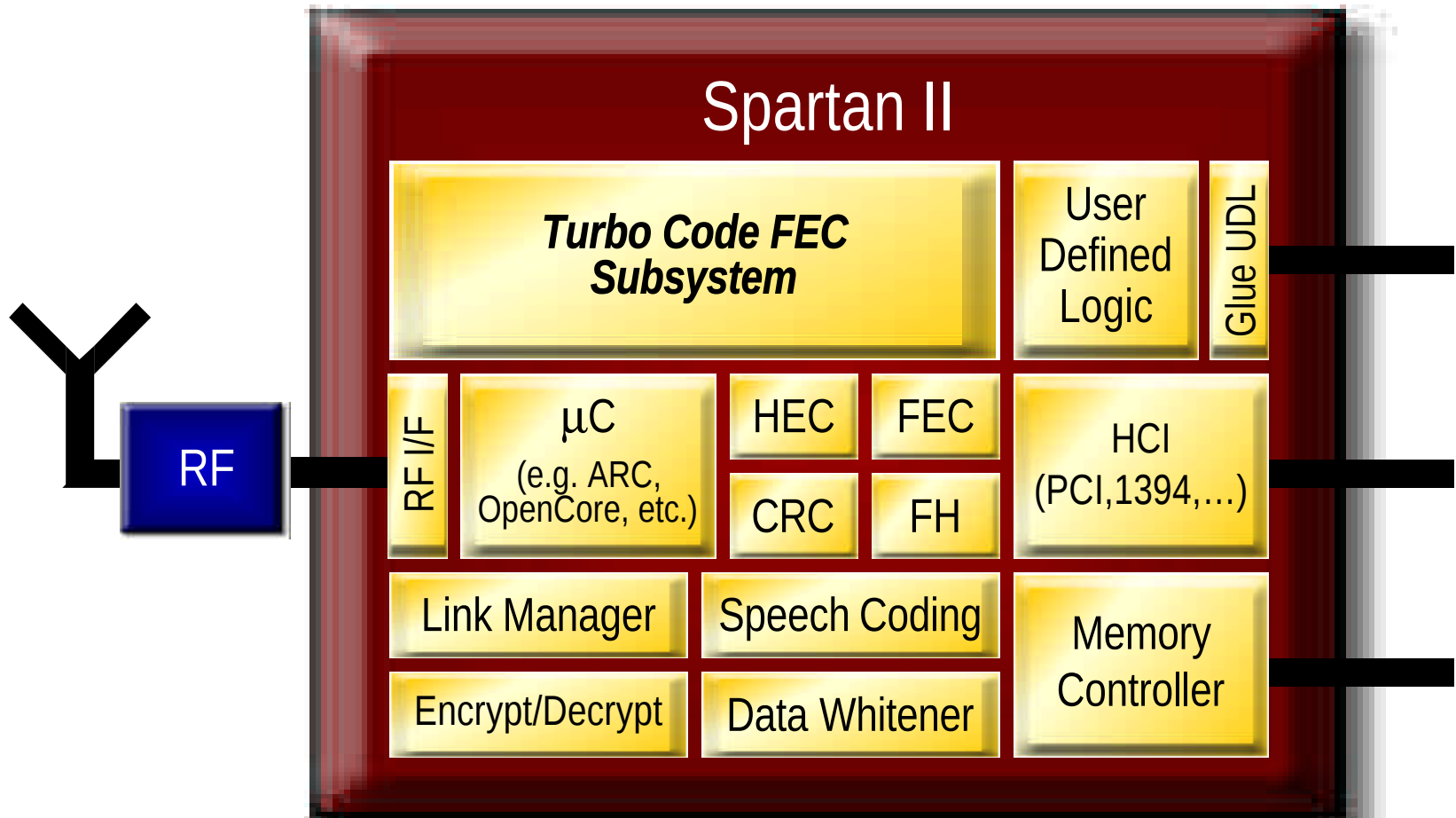
Xilinx in Bluetooth Tomorrow (3)

Spartan II Baseband with Custom Voice Encryption Extension



Xilinx in Bluetooth Tomorrow (4)

Spartan II Baseband with Custom FEC



So Who Is Bluetooth?

- ◆ Nine Promoters



TOSHIBA



Microsoft



NOKIA
CONNECTING PEOPLE

Lucent Technologies
Bell Labs Innovations



Founders

Y2K Additions

- ◆ And over 2000 additional SIG members



FUJITSU



LEXMARK



Canon



SIEMENS

SHARP



FUJIFILM



SONY

Panasonic

XILINX

EPSON

XEROX

NORTEL
NETWORKS



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