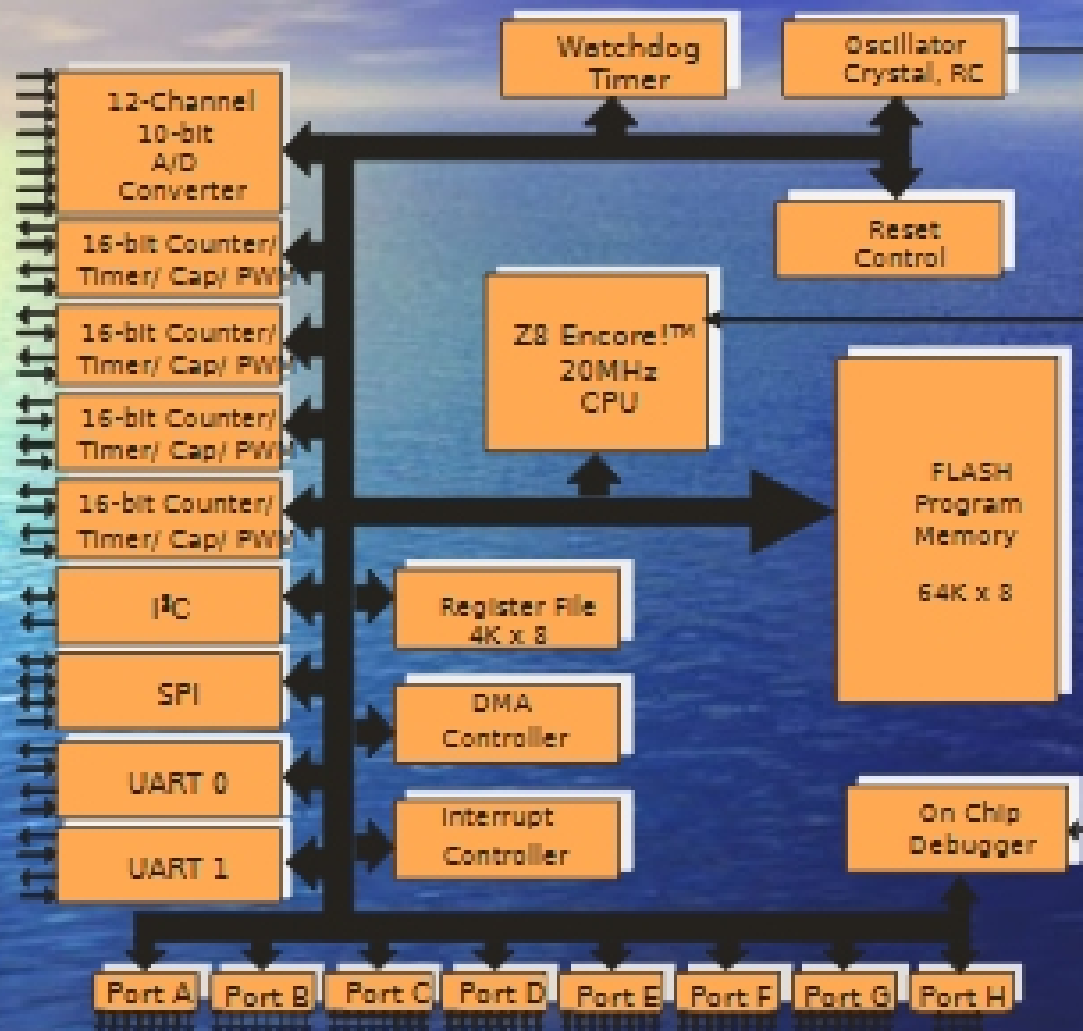


ECT 358

Lecture 34

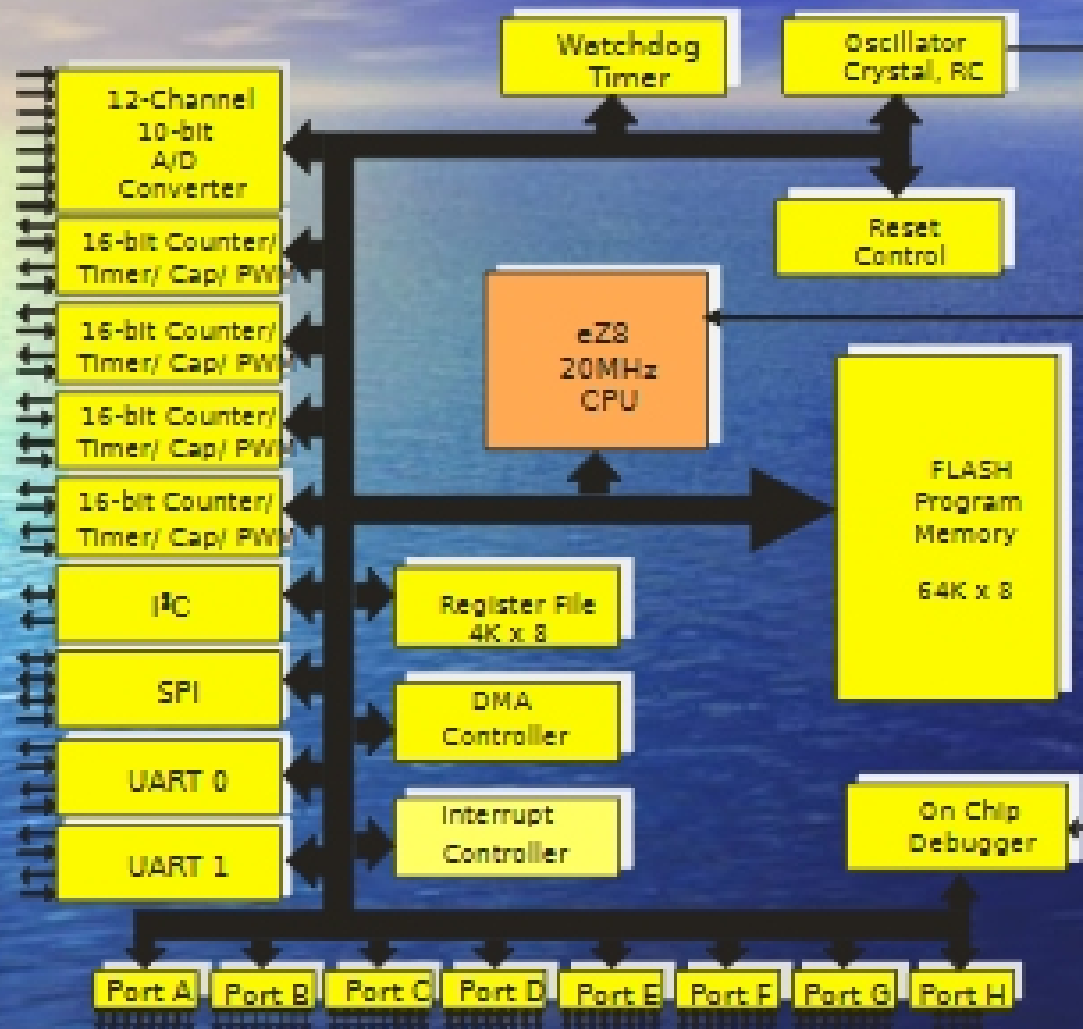
Other Platforms

Z8F640x Product Features



- **Enhanced 20MHz Z8 Encore!™ Processor Core**
- **The CPU core runs at the crystal frequency**
- **64KB FLASH Program Memory**
- **4KB of Register Ram**
- **Four 16-bit Timers with Capture and PWM's**
- **Two Full-Duplex, 9-Bit UARTs w/IrDA Support**
- **SPI and I²C Ports**
- **Up to 12-Channel, 10-Bit, A/D Conversion**
- **Up to 60 Available I/O Pins**
- **Built-in Debugger**
- **In-Circuit FLASH Programming (ICFP)**
- **Watch Dog Timer**
- **Up to 24-Vectored, Priority Based Interrupts**
- **Available in 40, 44, 64, 68 and 80-pin packages**

New Z8 Encore!TM Soft Core



Soft Core Features

- 76 instructions (runs existing Z8TM instructions)
- Linear Address Instructions to operate on the 4K Register Space
- Adds LDX for data movement between register pages
- Adds on-chip debug instructions: BRK, TRAP
- Adds instructions for improved performance and code efficiency
- Improved performance over the Z8TM
 - 20MHz operating speed
 - 2-9 cycles per instruction
 - Instruction fetch unit
 - up to 10-MIPS Operation