

The EP1011xS board create is a compact, cost-effective, and powerful platform for developing high performance networked control platforms. At only 3.5" x 2.2" x 1.0", the board will fit into compact spaces, while 1 serial port, 2 USB ports, and 1 Gigabit Ethernet port plus the EBC connector provide the necessary control I/O.

The External Bus Connector (EBC) provides direct access to the P1011 interfaces. This high-speed compact interface will handle demanding applications.

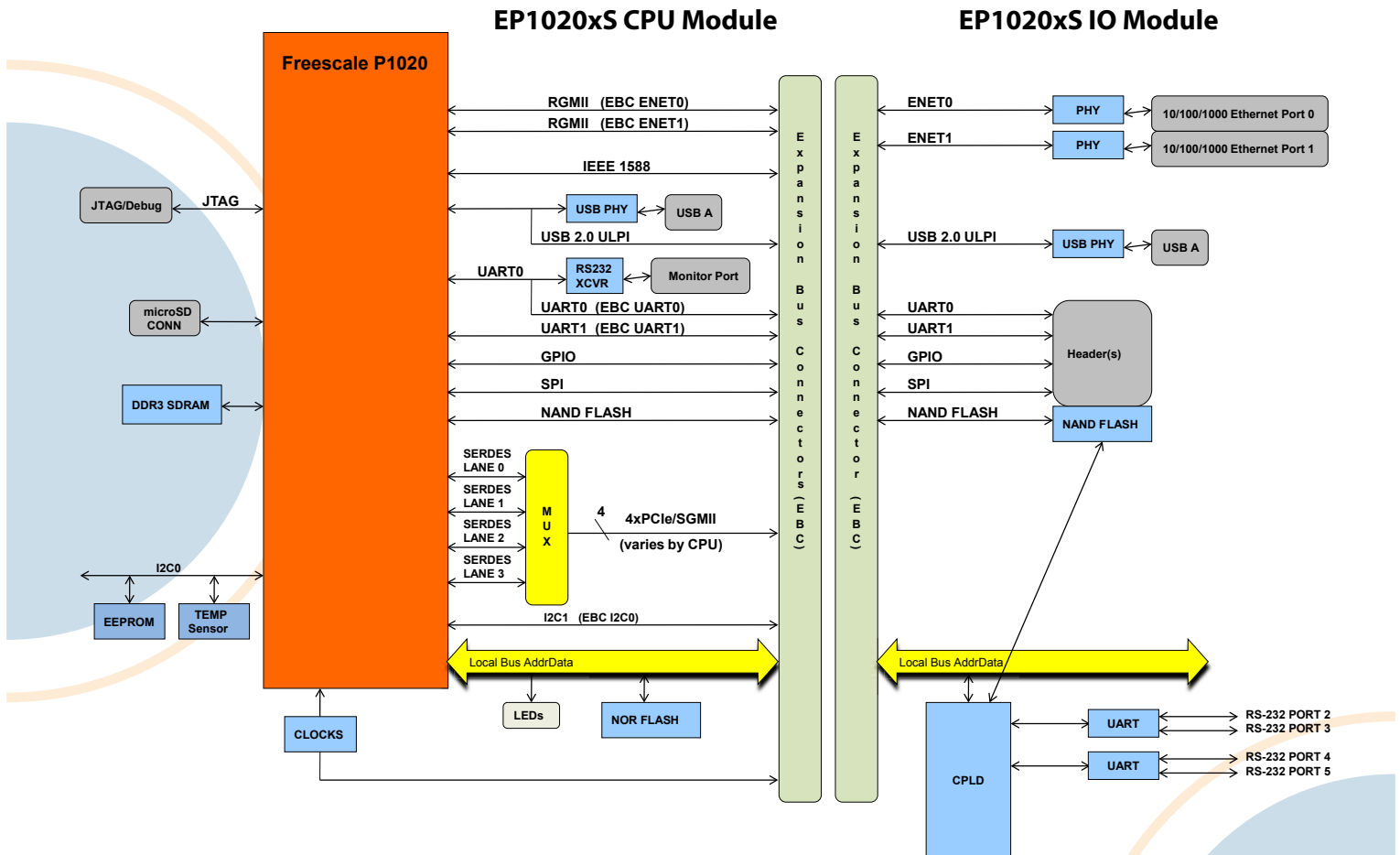
Feature Summary:

Specification:	Description:
Processor:	Freescall P1011 (or P1020, P1012 or P1021) at up to 800MHz
Memory:	RAM: Up to 256MB DDR3 FLASH: Up to 256MB, with optional SD socket
EBC Connector:	Direct access to SERDES, Clocks (SERDES, Ssystem, Ethernet), 1588, TSEC, USB, UARTs, GPIO, I2C, Flash and Power
Ethernet:	1 Gigabit port (Additional via I/O board)
Serial Ports:	1 RS-232 on board with additional ports available via optional I/O board
USB:	USB 2.0 Host and Device ports via I/O board
I2C Devices:	EEPROM and Battery Backed Real Time Clock
Form Factor:	Fanless Credit Card size (3.5" x 2.2"), 1.0" high
Debug:	On board JTAG debug connector

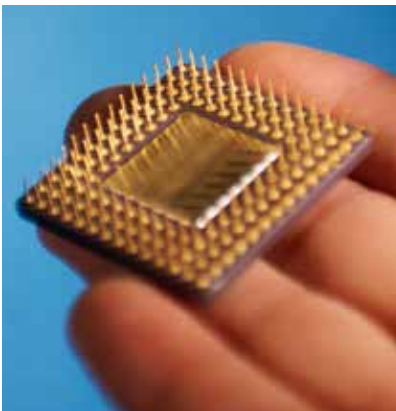
At the heart of the EP1011xS is the Freescale QorIQ P1011. The P1011 is a highly integrated SoC that includes an e500v2 core at speeds up to 800MHz, a floating point unit, NAND flash controller, DDR2 RAM controller, USB 2.0 host and device controllers, and dual Gigabit Ethernet MACs. The high level of integration increases performance, while lowering system power consumption and cost.

The board is supported by the U-Boot bootloader and BSPs for Linux, VxWorks, and Green Hills INTEGRITY.

Hardware Block Diagram



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