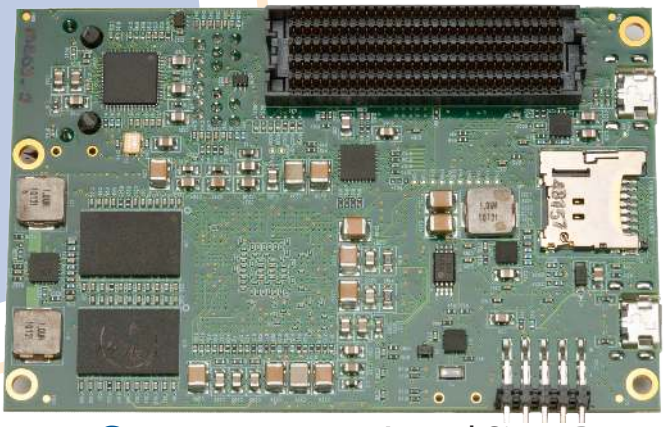
EMBEDDED PLANET

EPLS1020xS

QorIQ ARM

Actual Size - Top



Actual Size - Bottom

Feature Summary:

Specification:	Description:
Processor:	Freescale QorIQ Layerscape LS1020A, LS1021A or LS1022A processors running at up to 1GHz with Dual Cortex-A7 Cores
Memory:	RAM: Up to 256MB DDR3L FLASH: Up to 256MB, with optional SD socket
EBC Connector:	Direct access to SERDES, Clocks (SERDES, System, Ethernet), 1588, TSEC, USB, UARTs, GPIO, I2C, Flash and Power
Ethernet:	1 Gigabit port (Additional via EBC)
Serial Ports:	2 RS-232s (one on board and one on EBC)
USB:	USB 3.0 Host and Device
I2C Devices:	EEPROM and Battery Backed Real Time Clock
Form Factor:	Fanless compact size 3.5 x 2.2 x 0.9
Software:	U-Boot Bootloader, Linux, VxWorks, and Green Hills INTEGRITY BSPs available
Debug:	On board JTAG debug connector
Notes:	Available as industrial temperature

The EPLS1020xS is a compact, cost-effective, and powerful platform for developing high performance network and control applications including UAVs, imaging and industrial machine control.

At only 3.5 x 2.2 x 0.9, the board will fit into compact spaces, while the USB port, 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 Layerscape processor interfaces including SERDES, Ethernet and 1588. This high-speed compact interface will handle demanding applications.

At the heart of the EPLS1020xS is the Freescale QorIQ Layerscape processor family (LS1020A, LS1021A or LS1022A) with Dual ARM Cortex A7 cores. These processors are highly integrated SoCs with cores at speeds up to 1.0GHz, floating point unit, a flash controller, DDR3L RAM controller, USB 3.0 host and device controllers, and three Gigabit Ethernet MACs.

The Layerscape security engine is designed to support Secure Boot, ARM TrustZone and Trust Architecture.

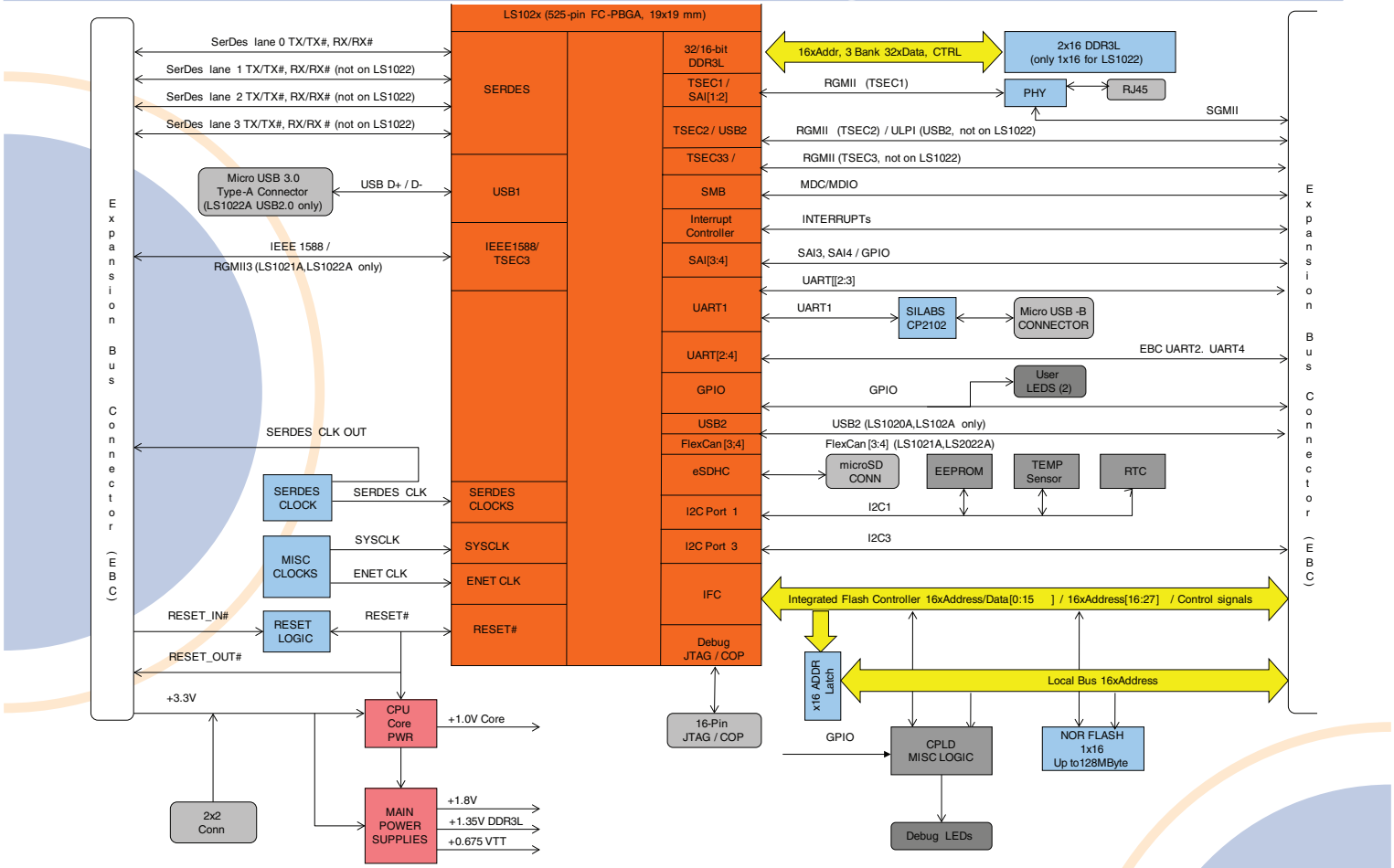
The board is supports a U-Boot bootloader and BSPs for Linux, VxWorks, and Green Hills INTEGRITY.

EMBEDDED PLANET

EPLS1020xS

QorIQ ARM

Hardware Block Diagram



Let Us Do The Heavy Lifting

- Embedded Planet offers a complete set of software and hardware services to go along with our Off-the-Shelf solutions.
- Embedded Planet has extensive experience with embedded operating systems and firmware. Our stock configurations of operating systems and firmware can be customized to meet your particular needs.
- We can alleviate the headaches associated with volume production of embedded systems. Your product is delivered 100% tested from an ISO-9002 certified manufacturing facility.
- Our capabilities are available on a project basis to design custom solutions specifically tailored to your application.
- Contact Embedded Planet to find out how we can accelerate your project.

Copyright © 2014 Embedded Planet, Inc. All Rights Reserved.