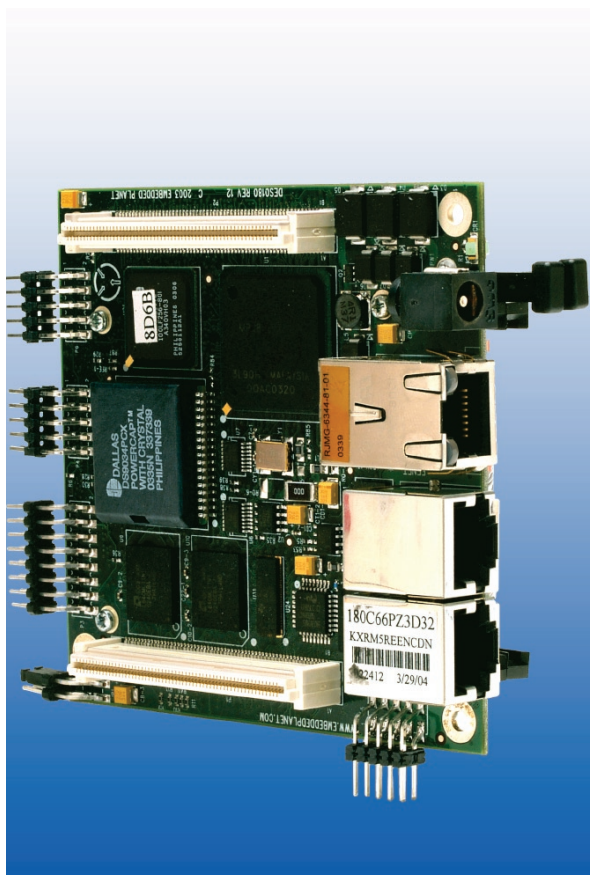# Embedded Planet EP8xx

Features:

- Freescale PowerPC PowerQUICC 855, 857, 859, 860, 862 and 866 processors
- RPX Bus for direct access to processor signals
- SDRAM 16, 32, 64 or 128MB
- Flash 8, 16, 32 or 64MB
- NVRAM 32, 128 or 512KB; Real-Time Clock
- 10/100BaseT Ethernet connection
- 10BaseT Ethernet connection
- Two PCMCIA slots Type: I, II and III
- Two RS-232 Serial ports
- Serial EEPROM I2C
- Serial temperature I2C
- Debug and JTAG port
- BCSR Control and Status Registers
- Dipswitch 4-position slide switch
- 5.25 to 3V operation (draws 1A max)
- PC/104 Mechanical 3.550x3.775" (90x96 mm)
- Operating Range 0° C to 70° C, Extended Temperature Range -40° C to 85° C available

Flexible Single Board Computer

The EP8xx single board computers take advantage of the Freescale MPC8xx PowerQUICC PowerPC processors. By integrating all of the features of the PowerPC into a production ready embedded development system, the EP8xx reduces Time-To-Market and increases product reliability for Communications, Military/Aerospace, Medical, and Industrial applications. The EP8xx single board computers include the RPX bus that provides direct access to MPC8xx processor signals for additional I/O expansion.

Product Options

Single Board Computer includes a cable kit, power supply, and CD with complete documentation. Board Development Kit includes processor bus breakout debug boards, PDF schematics, and support. Design Kits are available with schematic and firmware source. Embedded Planet provides customization and integration services. Production board population options can be configured to match customer requirements.

EMBEDDEDPLANET™

Block Diagram

NVRAM RAM FLASH

DATA BUS

SWITCH SW1

BCSR

MPC8xx

I2C

EEPROM

STTM

LED4 LED5

SCC1/2/3

SMC1/2

SCC1

MII

PCMCIA	RS-232	RS-232	ENET	FENET

TAP (P6) PCMCIA (P8,P9) RS-232 (P5) MONITOR (PM1) 10BASET (PM2) 100BASETX/ 10BASET (P7) DEBUG (P4) UTILITY (P3)

Software Development Tools

Linux and VxWorks BSPs are available from Embedded Planet. The BSP development CDs come complete with documentation, source code, pre-compiled images, build files and tools.

INTEGRITY BSP is available from Green Hills Software. Other RTOS options are also available.

Embedded Planet PlanetCore firmware is provided with each module and includes a Bootloader, Flash Burner, and Diagnostics. Download and run applications via Ethernet or serial, test board hardware, and burn images to Flash.

Complete line of low level and application level TCP/IP stack and protocols code is available.

Contact Embedded Planet sales: www.embeddedplanet.com or email info@embeddedplanet.com phone (216) 245-4180