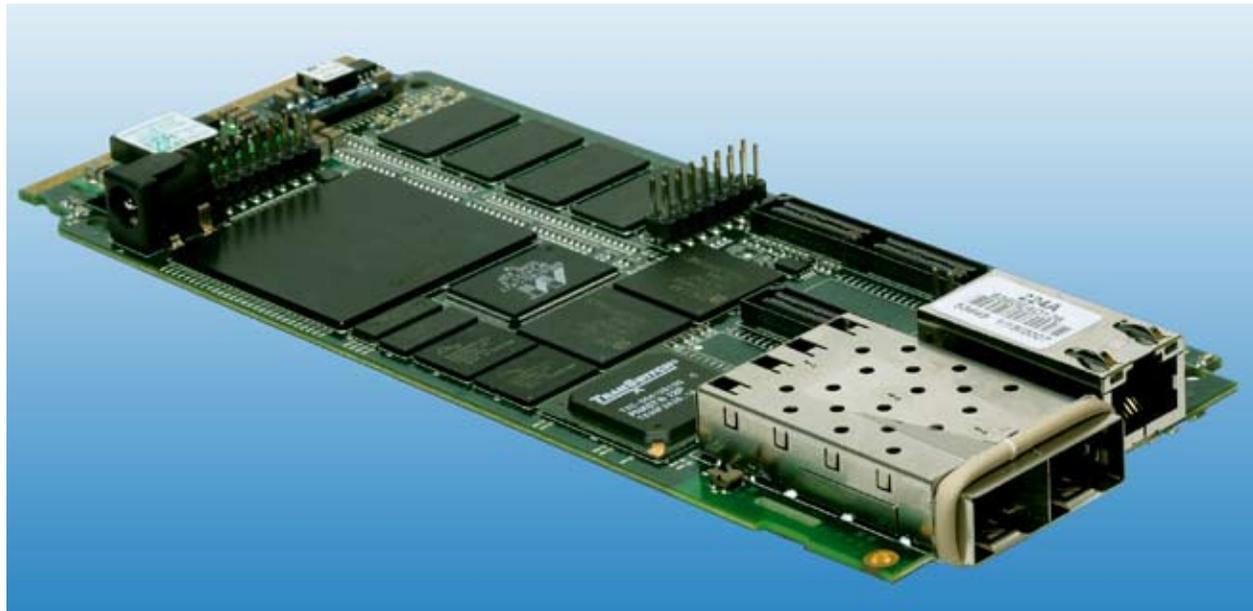# Embedded Planet EP8360

Features:

- Freescale MPC8360E (up to 667 MHz)
- 512 MB DDR2 RAM
- 128 MBytes Flash
- 1 10/100/1000 Ethernet, front panel RJ-45
- 2 10/100/1000 Ethernet, AMC connector port 0 and port 1
- Optical - 1 OC12 or 2 OC3 transceiver ports, front panel SFP
- T1/E1 - 8 T1/E1 transceiver ports, breakout connector

- Expansion QUICC Engine™ (QE) expansion connector
- Serial Ports - 2-wire RS-232, front panel RJ-22
- Form Factor Single-width, full-height AMC.0 and AMC.2 compliant
- Debug JTAG/COP port access for software debug and programming
- Operating temperature 0° C to 70° C (32° C to 158° F)

Advanced Mezzanine Card (AMC)

The EP8360A is a single width, full height AMC processor board with a low power, high performance Freescale MPC8360E PowerQUICC II Pro processor operating at up to 667MHz. The EP8360A board can operate as an AdvancedMC module within an AdvancedTCA® system when plugged into an ATCA® carrier or MicroTCA® chassis. The EP8360A is built for a broad range of demanding applications in wireless basestations, media gateways, enterprise network access systems, test and measurement systems, and server blades. In addition to the AMC configuration the EP8360A can operate as a stand-alone module and boot from on board flash allowing for rapid application.

At the heart of the EP8360A is the Freescale MPC8360E PowerQUICC II™ Pro family of integrated communications processor. The MPC8360E family incorporates a next-generation communications engine, the QUICC™ Engine, supporting a wide range of protocols, including Gigabit Ethernet and OC-12 asynchronous transfer mode (ATM)/Packet over Sonet (POS). The highly integrated SoC architecture improves system performance, simplifies board design, lowers power consumption, and reduces cost.

Block Diagram

FLASH

LOCAL BUS

CLOCKS
33 MHZ
25 MHZ
19.44 MHZ
8.192 MHZ

SONET XCVR

TDM XCVR

TDM XCVR

SDRAM

SDRAM

PRI DDR BUS

SEC DDR BUS

UPC2/UTOPIA 16

UPC1/TSA

UPC1/TSA

MPC8360E

I2C

EEPROM

CFG SWITCH
SW3/4

LEDS

CPLD

EEPROM

TEMP

SPI

UART1

UCC1/GMII

UCC2/GMII

CFG SWITCH
SW5

RS-232

GBIT PHY

GBIT SWITCH

MMC

CFG SWITCH
SW2

SERDES

I2C

QE EXPANSION (P10)

OC12/ OC3 (P12)

OC3 (P13)

T1/E1 (P15)

JTAG/ COP (P8)
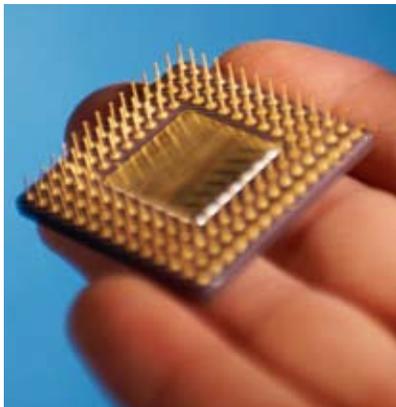
SERIAL (P9)

10/100/1000 ETHERNET (P2)

AMC CONNECTOR (P1)

JTAG/ BDM (P4)

SERIAL (P3)
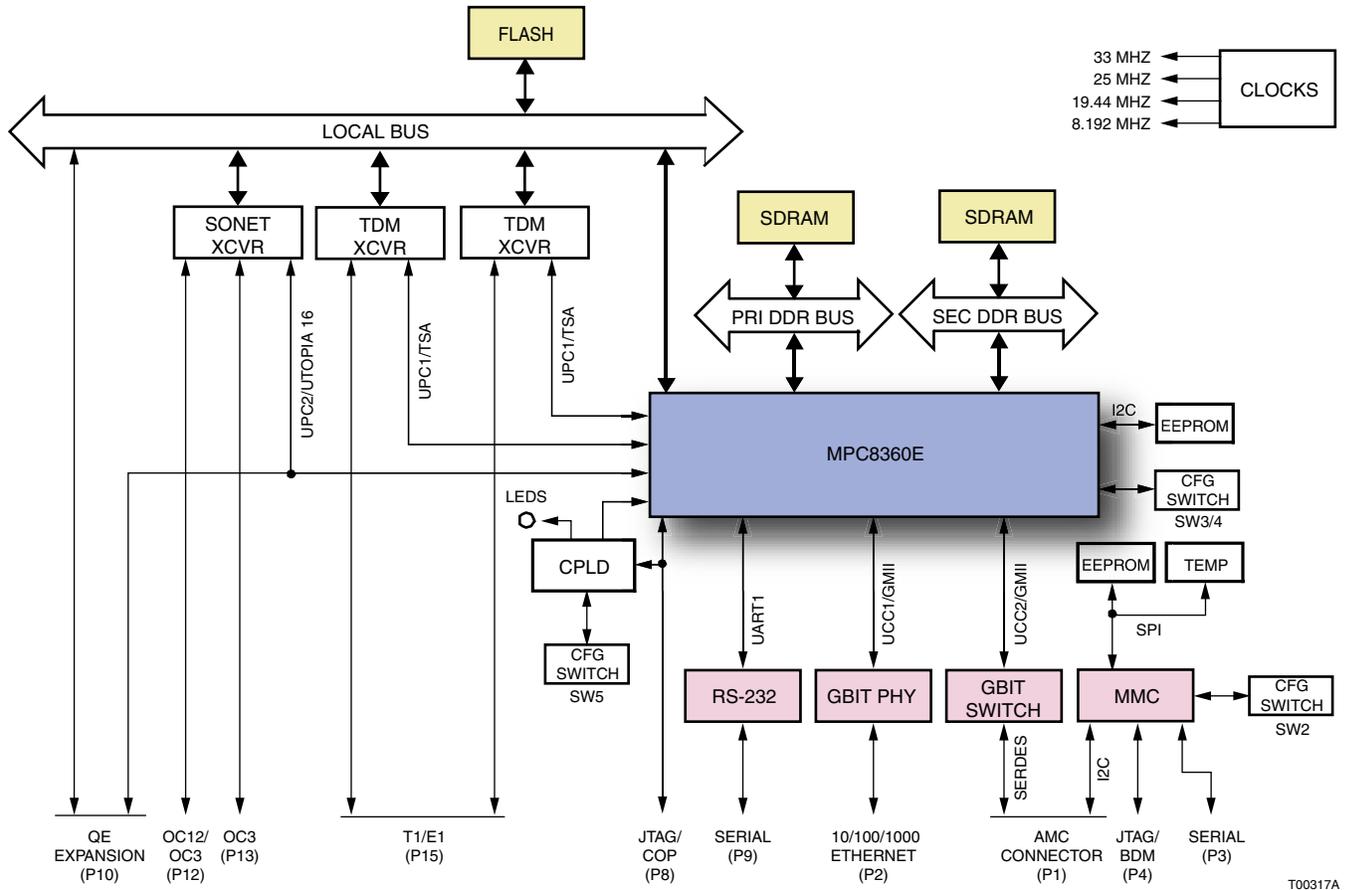
T00317A

Let Us Do The Heavy Lifting

- Embedded Planet offers a complete set of software and hardware training and customization services to go along with our Off-the-Shelf solutions.
- Our training classes in Linux, VxWorks, and Eclipse can help your engineering team shrink their time-to-productivity and help ensure higher quality products.
- Our custom diagnostics tools, Eclipse applications, U-Boot porting, Linux, Green Hills INTEGRITY, and VxWorks BSPs and applications can extend your engineering team and shrink your time to market.
- Contact Embedded Planet to find out how our Professional Services Division can accelerate your project.

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