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MPC8360E-RDK: Industrial Development Platform

Overview   In-depth   Documentation   Design Support

The Reference Design Kit (MPC8360E-RDK) highlights the capabilities of the MPC83xx PowerQUICC processors for applications that require high-performance connectivity and determinism. The platform supports graphics and touch screen capability in addition to popular interfaces such as Ethernet, 64-bit PCI controllers, UARTS, integrated security engine, USB, SPI, I^{2}C, and (GPIO) pins. The platform ships with a Linux® board support package, bootloader, production-ready protocols for evaluation, and is supported by Freescale CodeWarrior™ tools and Wind River Linux and VxWorks®. The protocols include: PROFIBUS which is licensable from IndusRAD, and ETHERNET Powerlink and IEEE® 1588 which are licensable from IXXAT. Additional protocols are under development for this platform. This platform utilizes the industry-standard COM-Express module for the MPC8360 microprocessor which allows for future MPC83xx modules to be offered for this development environment.
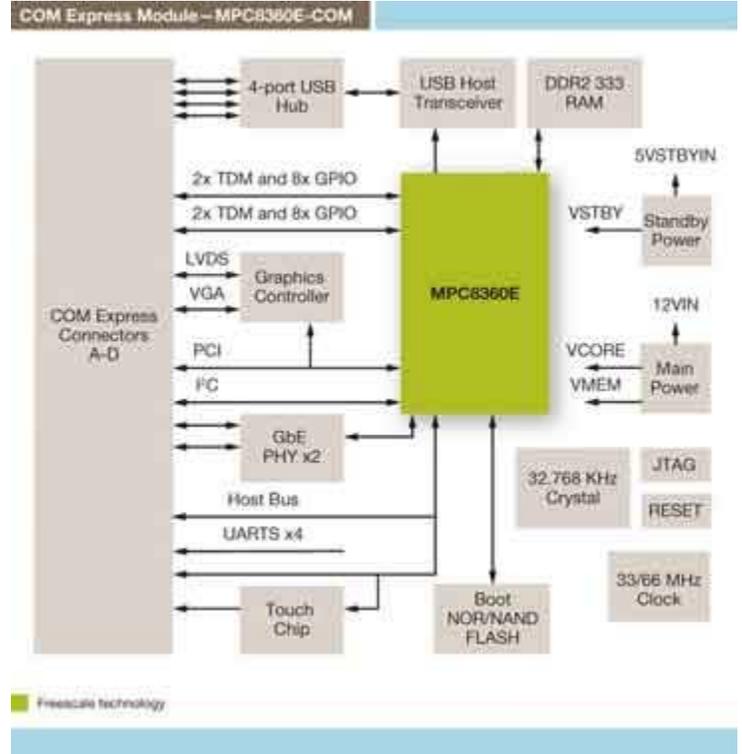

Features

Production Ready COM-Express Module Features

- Type 3 module
- Supports full MPC83xx PowerQUICC processor family
- 256 MB of DDR2 SDRAM
- 8 MB Boot NOR Flash
- 2x 10/100/1000 Mbps Ethernet
- 2x 10/100 fast Ethernet
- Graphics and touch screen capable
- 4x full functional UART
- 32-bit PCI connection
- 1x SPI
- 1x I^{2}C
- 4 port USB HUB
- 8 pins General Purpose Input/Output

MPC83XX Development Carrier Board Features

- 2 x PCIe (x1 type)
- 1 x PCI slots (32 bit / 66 MHz or 33 MHz)
- Common I/O routed to back panel
  - 4 USB 2.0
  - 4 Ethernet
  - 2 RS485

Kit Contains

Platform/HW

- Carrier Board FlexATX
- MPC8360E COM Express module
- Power Supply
- Null-modem serial cable

Protocols – Optimized Binaries **

- PROFIBUS (IndusRAD)
- Ethernet Powerlink (IXXAT)
- IEEE® 1588 (IXXAT)

Tools

- CodeWarrior® IDE & USB TAP for Debug
- Linux® BSP & Optimized device Drivers *
- U-Boot Bootloader installed on resident flash *
- Wind River Linux® and VxWorks **

Design Files - downloadable for COM Express module only

- □ 2 RS232
- □ 4 SATA
- ■ Wireless connectivity through 1x mini-PCI
  - □ 802.11 or ZigBee™

MPC83XX Development Carrier Board Block Diagram

- ■ PDF of Schematics, Layout
- ■ BOM

Documentation
- ■ Quick Start Guide
- ■ Users Guide **

* Source code downloadable
** Downloadable

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