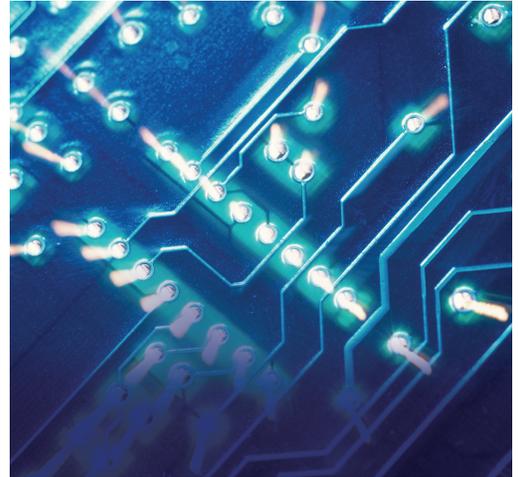# CodeWarrior™ Development Studio
MPC8280 Evaluation System

The MPC8280 Evaluation System is a simple yet powerful platform that enables evaluation and development to begin even before the target hardware is available. This kit offers a solid platform for both hardware and software engineers to use in evaluating and prototyping designs that closely parallel their final applications. The MPC8280 Evaluation System also gives software engineers a live target on which to begin developing and testing application code. Like all Freescale™ evaluation systems, the MPC8280 system comes complete with the board, associated power supply and cables, CodeWarrior™ Development Studio, and the Precise/MQX™ RTOS with Real Time Communication Stacks. This evaluation system has been packaged so that you are productive in as little as 30 minutes of unpacking the kit.

MPC8280 Evaluation Board Features
> Freescale MPC8280ZU processor — 450 MHz

> 16 MB 64-bit wide, SDRAM

> 8 MB Flash

> 2 – 10/100-BaseT Ethernet

> 2 – RS232 ports

> USB – configurable as device or host

> SCC and SMC configured

> PCI bus interface and PCI card form factor for easy use and insertion into PCI slots

> Expansion header – TDM, I2C, SPI, SCC, Address and 32-bit data

> Stand Alone Operation or Integrated Operation in PCI Slot

> CD-ROM with design, reference and complete documentation

> RedBoot™ on-board monitor

> WireTAP® JTAG/COP run control

> Power supply and cables

Precise/MQX™ and RTCS
Precise/MQX is a scalable real-time operating system (RTOS) that is specifically written to meet the design requirements of embedded Internet, wireless, networking and telecom applications.

> Small configurable size

> Fast, deterministic performance

> Portable adaptive technology

> Support for multiple configurations

> Complete set of protocol stacks from physical layer through application layer

> Control of source code

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CodeWarrior Development Studio MPC8280 Evaluation System

CodeWarrior Development Studio, PowerPC® ISA Edition for Communication Processors

CodeWarrior Development Studio is a powerful and easy-to-use tool that is designed specifically to increase software development productivity. The CodeWarrior integrated development environment (IDE) provides an intuitive graphical user interface (GUI) for development for the PowerPC® instruction set architectures.

CodeWarrior Development Studio provides:

> Debugger support for source, assembly and mixed source/assembly debugging

> Complete ANSI/ISO C/C++ compliant compiler

> Hierarchical C++ browser

> Powerful hardware-level diagnostics and troubleshooting facilities

> Complete code navigation system

> RTOS awareness for Precise/MQX

Benefits

Free detailed schematics

All Freescale evaluation systems come with free schematics in electronic format. Schematics give hardware engineers a solid design for use in building their own boards.

Tools integration

Freescale reference designs and hardware-assisted debugging tools are well integrated to provide a good out-of-the-box experience. Every board has its own board support package, so developers can immediately begin using all of the Freescale tools.
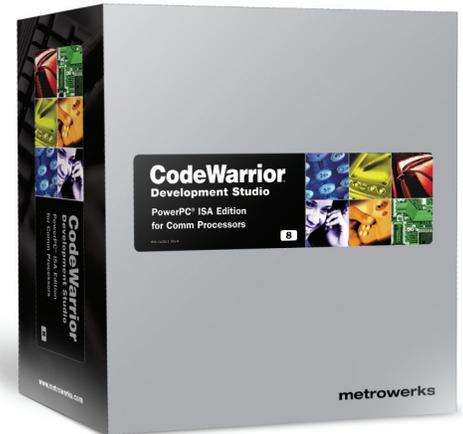
Experienced support

As a supplier of evaluation systems, reference designs and hardware-assisted debugging tools for an array of microprocessors, Freescale has all the experience necessary to provide knowledgeable, responsive application and technical support for development projects.

Accelerated early development

Firmware, hardware and production test engineers can all take advantage of Freescale evaluation systems and reference designs. Firmware and hardware engineers can adapt Freescale evaluation systems to their own, enabling them to reduce development time. Production test engineers can use the board and WireTAP/PowerTAP® PRO debugging tools or some third-party run-control devices to design and prototype complex and efficient production algorithms before the custom hardware is prototyped.

Ordering Information

> Part Number – CWDS8280EVAL

> The CodeWarrior Development Studio in this package is an evaluation version, time-limited to 30 days from installation.

> The MQX/Precise RTOS in this package is an evaluation version, execution limited.

> Fully licensed versions of the above can be obtained separately via your local Freescale distributor.

Learn More: For more information about Freescale products, please visit **www.freescale.com/codewarrior**

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