

```

RegPBOut = 0xAA;
for(j = 0; j < 800; j++){
    RegIrqEnMid = RegIrqEnMid | 0x01;
    while(!PBOInterrupt == FALSE){
        RegPBOut = 0x01;
        for(j = 0; j < 100; j++){

```



XE8000 series Development tools

General Description

Development tools for the XE8000 include a complete set of software and hardware tools.

The tools include RIDE the software development environment, the ProStart II programmer and starter kit, the PICE in-circuit-emulator and the programmers from Bpmicro.

RIDE is a fully integrated Windows-based development environment. It allows the user to develop code, simulate operations, download software, debug the application and monitor program execution.

ProStart II is a set of tools that make it possible to completely develop the application and execute it on the final product. It includes software, programmer, evaluation board and product samples.

To complement the tools in their support role, you can also find Application Notes that describe solutions (wireless with XE8000, compass, air quality monitor, barometer) and Technical Notes that focus on one or another points of the XE8000 products. These notes can be found online at www.xemics.com/xe8000

Programmer and Starter kit (ProStart II)

The ProStart II lets you program and evaluate the products as well as develop your complete application.



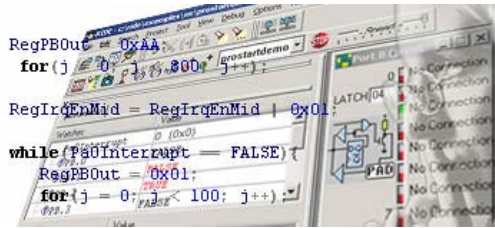
The ProStart II includes RIDE-Pro software (XE8000SW), a multi-purpose board (XE8000MP) and an evaluation board adapted to the product. The multi-purpose board is used for all communication purposes between the PC that hosts RIDE and the samples. The evaluation board has a zero-insertion force socket and it comes with 3 product samples, it also includes buttons and LEDs for easy demonstration of simple functions.

Product	ProStart II		
	Software	MP board	EV board
XE88LC01MI027	XE8000SW	XE8000MP	XE8000EV101
XE88LC02MI035	XE8000SW	XE8000MP	XE8000EV110
XE88LC03MI015	XE8000SW	XE8000MP	XE8000EV102
XE88LC03MI026	XE8000SW	XE8000MP	XE8000EV103
XE88LC05MI028	XE8000SW	XE8000MP	XE8000EV104
XE88LC06AMI026	XE8000SW	XE8000MP	XE8000EV108

Development tools for XE8000 series:

Integrated Development Environment (RIDE)

RIDE IDE provides all the necessary software to develop applications on the XE8000 micro-controller based devices.



Assembler - Compiler

This powerful macro assembler supports the complete instruction set for the XE8000 series microcontroller family. The ANSI C compliant compiler integrates extended features to address the XE8000 core. It enables in-lining of assembler instructions.

Librarian

Allows you to build re-useable libraries of objects, functions and modules that can be linked with other applications.

Source Level Debugger and ROM monitoring

A symbolic debugger enables debugging of the application at the source code level. Trouble shooting can be conducted through the built-in simulator or with the ROM monitor that can be downloaded in the final application to set breakpoints and monitor registers during program execution for real world testing.

Different software packages available

RIDE is available in complete and demo versions. An extended version with code compressor will be available by the end of 2002. All share the same basic software, and upgrading from one package to another is made with a software key without the need to reinstall the environment.

RIDE-Lite (RkitXE Evaluation Version)	free complete integrated edition and compiling tools, with a limited simulator (1 kInstructions)
RIDE-Pro (RkitXE ROM Monitor Package)	complete integrated edition, compiling and simulation tools with ROM monitoring capabilities
RIDE-Compressor (RkitXE Enterprise Suite)	has in addition a code compressor, multi-processor simulation capabilities and script management (available by end 2002)

In-Circuit-Emulator (PICE)

An ICE is available from Phytion for most of the XE8000 processors. The ICE makes it possible to develop and debug the application by executing and tracing it in the final product conditions.



The ICE includes an IDE, a board with a bondout version of the MCU and an adapter to the real chip pin layout. The current ICE includes an XE88LC06 core and can be used to prepare software with limited extra work for all XE8000 products.

The ICE has additional digital inputs and outputs to synchronize with other instruments.

Multipurpose board

The multipurpose board (XE8000MP) interfaces the MTP products with a host PC for development. It includes the programming algorithm, a power supply and level shifters for RS-232 communication.



Evaluation board

The product specific evaluation boards (XE8000EV1xx) include a zero-insertion force socket for the product sample.



All evaluation boards also include a battery socket for stand-alone operation, buttons and LEDs to activate and see the parallel ports' status, pins for direct connection to the chip pins, and 3 product samples. Some evaluation boards also include an EEPROM for local data storage, a free development area and an LCD driver.

The evaluation boards directly connect to the multipurpose board for chip programming and software debugging.

Programmer

XE88LC01, XE88LC03 and XE88LC05 devices are supported by the BPmicro BP1600 programmer.



Partners:



BPmicro : programmers

www.bpmicro.com



Phytion Inc. : development tools for

XE8000: www.phytion.com



Raisonance : development environment

for XE8000: www.raisonance.com