

SMX.BlazeTM

Integrated Networking and Multitasking Package

SMX.Blaze offers networking and multitasking in a low-cost, integrated package for embedded systems. Multitasking allows the networking and application portions to operate independently, thus making design easier. To enhance project success further, SMX.Blaze provides processor-specific BSP and startup code and tool specific project and help files. These ensure that your project will get off to a quick start and never look back.

Benefits of Using

- Reduced development schedule and cost
- Lower product cost
- Fast start, integrated solution
- Minimal device drivers to write
- High success rate
- Future needs are covered

Reduced development schedule and cost is assured by proven code and pre-integration with the selected processor and tools.

Lower product cost. Because of the small size and high performance of SMX.Blaze, it may be possible to avoid using external memory and to use a lower-performance processor. It also is often possible to avoid dual-processor designs.

Fast start. Save valuable startup time by using an integrated solution for the processor and commercial tools of your choice. With SMX.Blaze you have an out-of-the-box solution that requires no integration time.

Minimal drivers to write. SMX.Blaze includes most device drivers you need. (Other available SMX products come with their appropriate drivers.)

High success rate. We put your success first, via responsive support, clear manuals, and training.

Features

- \$15,000 Full Price
- Min 24KB RAM, 70KB ROM
- Compact, fast TCP/IP stack
- BOOTP, DHCP c, DNS c, SLIP + dialer, TFTP, Telnet s
- Ethernet driver or PPP
- Hard-real-time multitasking smx kernel
- Processor-specific BSP and startup code
- Project files for CodeWarrior or IAR
- Clearly written manuals

c = client; s = server

Future needs are covered. SMX.Blaze can be extended with other products from Micro Digital's extensive product line. You can add a web server, file I/O, GUI, USB, and other products, as needed.

Goal

The goal of SMX.Blaze is to allow developers who need networking, multitasking, and hard real-time performance to launch low-to-mid-range embedded projects quickly and at low cost. SMX.Blaze works with quality commercial tools that enable developers to achieve quick time to market and high product quality. The SMX.Blaze price makes networking + multitasking affordable for projects on a tight budget.

SMX.Blaze Features

SMX.Blaze provides an integrated solution that is small, powerful, and low-cost. It is ideal for

networked products that are migrating upward from 8-bit and 16-bit processors, as well as for low to mid-range, 32-bit embedded systems. SMX.Blaze currently supports ARM, ColdFire, and x86 processors.

Features that Reduce Development Cost

Products incorporating networking are easier to design and more reliable if they use a multitasking kernel. The smx kernel provides extremely low interrupt latency, fast task switching, and deferred interrupt processing via LSRs. As a result, SMX.Blaze is compatible with the tight-timing designs that are common in low-end embedded systems.

Features that Reduce Hardware Cost

Many new SoCs and processors are offering 128KB on-chip flash and 32KB on-chip SRAM, or

more. SMX.Blaze fits within these for a full TCP/IP stack with multitasking. (See minimum sizes in Features sidebar.) For these low-end 32-bit systems, it is possible to avoid using external memory. This not only saves component cost and board space, but it also allows using a slower processor, since on-chip memory is much faster and reduces power consumption.

Free SMX.Blaze Evaluation Kits

Free EKs are posted for download. These run on popular evaluation boards and prove how easy it is to get going with SMX.Blaze.

For More Information

To learn more about SMX.Blaze, see:

- [smx datasheet](#)
- [smxNS datasheet](#)