AMX 960 Real-Time Multitasking Kernel

- Full-Featured, Compact ROMable Kernel With Optimized Execution Speed
- Preemptive Priority Task Scheduler With Optional Time Slicing
- Nested Interrupts With Priority Ordering
- Mailbox, Semaphore, Resource, Event, List, Buffer and Memory Managers
- Configuration Builder Utility Eases System Construction
- InSight* Debug Tool is Available to View System Internals and Gather Task Execution Information
- Simple Configuration Changes to Select i960® Sx, Kx, Cx, Jx or Hx Processors
- Clear and Comprehensive Documentation
- Site Licenses Include No-Hidden-Charges
- No Royalties
- Source Code Included
- Enviable Track Record For Reliability and Support

AMX is a full featured real-time multi-tasking kernel for a wide range of target processors. AMX 960 supports the Intel i960 processors, family of microprocessors including the 80960SA/SB, 80960KA/KB, 80960CA/CF, 80960JA/JD/JF and 80960HA/HD/HT. AMX 960 has been tested on the Intel EV80960SX and EV80960CA evaluation boards and on the Cyclone Sx, Kx, Cx and Jx Evaluation Platform. The AMX family of kernels, first released in 1980, is used by more than 1,000 developers worldwide.

AMX is a simple, readily understandable software development tool which meets the stringent requirements of all real-time applications. Restart procedures kick the system off the ground. Tasks execute in response to requests from other tasks, from Interrupt Service Procedures or from Timer Procedures. Tasks can create other tasks. Interrupt Service Procedures handle

the specifics of the hardware configuration, service the device in question and send messages to tasks to handle the more complex processing associated with the Event. Timer Procedures provide precise interval measurement and can be used to provide periodic requests for task execution.

AMX is delivered ready for development on a PC with DOS. Source code of all AMX modules is provided with AMX to permit AMX to be ported to any development platform. A sample program is provided to illustrate the proper use of many of the AMX services.

AMX 960 is delivered in library object format ready for use with Intel iC-960, Intel GNU/960 and Microtec Research C. There is no need to reconstruct AMX in order to use it. The Tool Guide included with AMX for each supported tool set directs you in the proper use of the compiler, assembler, librarian and linker. Also included are instructions for rebuilding AMX, should you so choose.

AMX is offered with a liberal site license agreement which does not limit the number of development work stations. Executable application modules incorporating AMX can be distributed without royalties.

AMX documentation is well organized, comprehensive and includes tutorial explanations and examples. The Reference Manual highlights the answers to the more common technical support questions.

It is KADAK's policy to provide prompt and courteous technical support to licensed AMX users. Each AMX product purchased includes automatic software updates for a period of one year from the date of purchase.

HOST SYSTEMS SUPPORTED:
PC, Portable to other hosts

PROCESSORS SUPPORTED:
i960 Processor Family

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For international contacts see Appendix B.

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