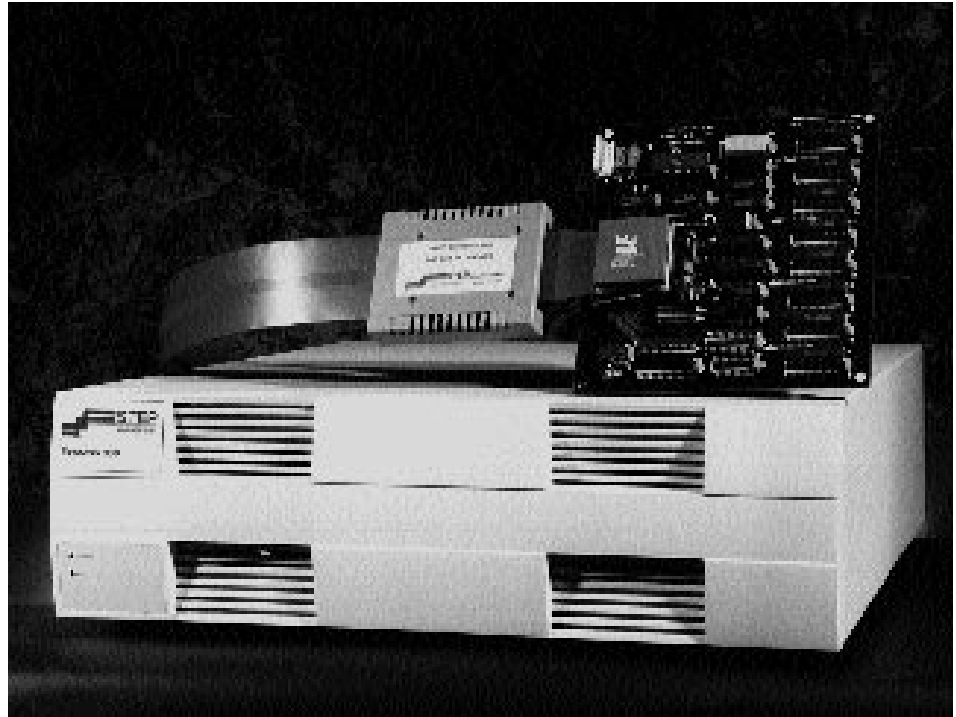


Express 960 E1 Non-Intrusive In-Circuit Emulator



- Non-Intrusive Real-Time Operation
Up to 33 MHz
- On-Chip I-Cache Program
Reconstruction
- Integrated In-Circuit Emulator and
Windowed High-Level Debugger
- 32K Deep Trace Buffer
- Hardware and Software Breakpoints
- Large (Up to 8 Mbyte) Overlay
Memory
- High-Speed Program Download
to Host
- Remote Debugging via Ethernet
- Low-Level Monitor Control
Capability
- Supports Intel's CTOOLS960,
STEP's SGCC960 and Microtec's
MCC960 Compilers
- Full Turnkey Solution Includes
Integration to Target System



The STEP Express 960 E1 emulator provides a cost-effective development platform for designing Intel i960® Cx processor based systems. The Express provides non-intrusive real-time, in-circuit emulation of the i960 Cx processor's operation at speeds up to 33 MHz. The Express 960 is capable of reconstructing the program code executing from on-chip cache memory. The trace includes displays of the address, data and instruction buses (including multiple instructions executed in one cycle), the control signals, and 32 external bits.

Combined with STEP's SDBUG (Windows 3.1) or STEPGuide (X Window/Motif) debugger, the Express 960 emulator gives the designer the ability to develop even the most complex embedded applications.

Communication between the Express 960 emulator and the host is accomplished by a parallel bus. Code development can be accomplished on the emulator host or another system. In a networked environment, the Express 960 emulator provides an Ethernet-controlled interface and a TCP/IP network interface, allowing

remote debugging sessions. Debugging and control can also be accomplished through a low-level monitor interface.

For hardware developers, the Express 960 provides a range of functions to isolate layout or component problems, standardized tests, and the ability to set up the i960 processor from the ICE. For software development needs, the emulator is compatible with tools from Intel, Cygnus and Microtec.

HOST SYSTEMS SUPPORTED:
PC/AT, Sun-4, RS/6000, PS/2, Custom

PROCESSORS SUPPORTED:
i960 Cx/Jx/Hx Processors

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