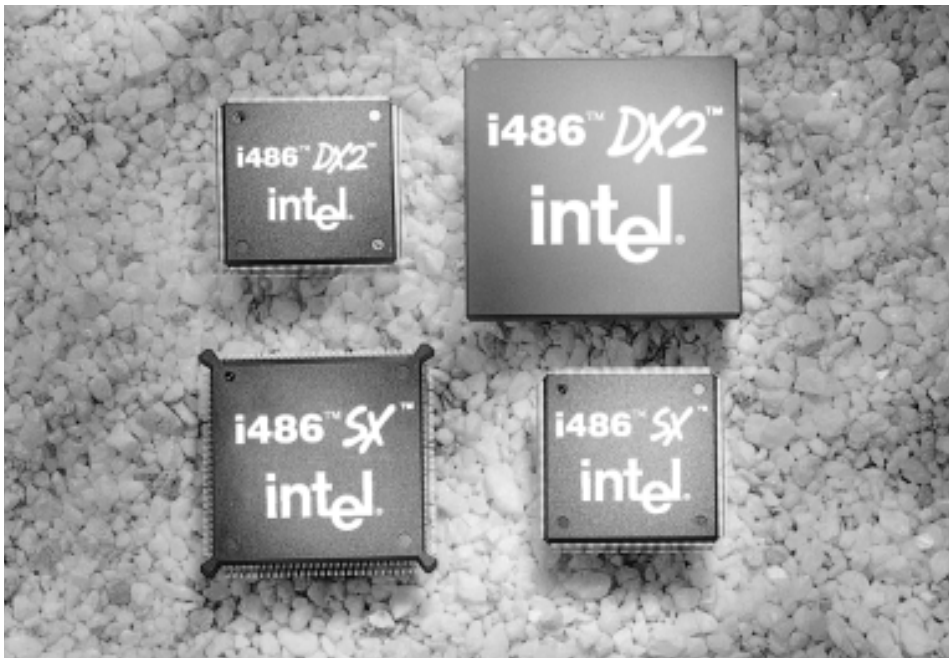
Embedded SL Enhanced Intel486™ Processors

Embedded Intel486™ SX Processor Features

- Complete 32-Bit RISC Technology Integer Core
- 8 Kbyte On-Chip Write-Through Cache
- Both Code and Data Cachable
- Single Cycle Instruction Execution
- 33 MHz Clock Frequency at 5V and 3.3V
- Burst Data Bus
  - 106-Mbyte/Sec Maximum Burst Bus Cycle at 33 MHz
- SL Technology For Intelligent Power-Management Capabilities
  - Static Design
  - Stop Clock, Auto HALT Power Down, I/O Restart
  - System Management Mode (SMM)
- 32-Bit External Data Bus
- Address Range
  - 4 Gigabytes of Physical Memory
  - 64 Terabytes of Virtual Memory
- Binary Compatible With Operating Systems Such as MS-DOS* and Standard Windowing Environments
- JTAG Boundary Scan
- 198-Lead PQFP (Plastic Quad Flat Pack) Supports 5V ± 0.25V at 33 MHz
- 208-Lead SQFP (Shrink Quad Flat Pack) Supports 3.3V ± 0.3V at 33 MHz

Embedded IntelDX2™ Processor Features

- Complete 32-Bit RISC Technology Integer Core
- 8 Kbyte On-Chip Write-Through Cache
- Both Code and Data Cachable
- On-Chip Floating-Point Unit
- Single Cycle Instruction Execution
- Frequencies
  - 66-MHz Core Speed Using 33-MHz Bus Clock at 5V
  - 50-MHz Core Speed Using 25-MHz Bus Clock at 3.3V
- Burst Data Bus
  - 80-Mbyte/Sec Maximum Burst Bus Cycle at 25 MHz
  - 106-Mbyte/Sec Maximum Burst Bus Cycle at 33 MHz
- SL Technology For Intelligent Power-Management Capabilities
  - Static Design
  - Stop Clock, Auto HALT Power Down, Auto Idle Power Down, I/O Restart
  - System Management Mode (SMM)
- 32-Bit External Data Bus
- Address Range
  - 4 Gigabytes of Physical Memory
  - 64 Terabytes of Virtual Memory
- Binary Compatible With Operating Systems Such as MS-DOS and Standard Windowing Environments
- JTAG Boundary Scan
- 168-Pin PGA (Pin Grid Array) Supports 5V ± 0.25V at 66 MHz
- 208-Lead SQFP Supports 3.3V ± 0.3V at 50 MHz



The Intel486 SX and IntelDX2 processors are designed into a wide variety of applications in the embedded market segment. Application examples include terminals, embedded PC boards, industrial control systems, scanners, medical instrumentation etc. In addition, embedded 386 processor customers can also take advantage of the Intel486 processors as a means of extending the performance breadth for embedded systems.

The embedded SL Enhanced Intel486 SX processors bring high levels of performance to lower-cost, entry-level, embedded 486 processor designs. Significant architectural enhancements including on-chip cache provide performance improvements while maintaining code compatibility.

The SL Enhanced IntelDX2 processors bring even higher levels of performance. The IntelDX2 processor performance levels are sustained by such features as internal clock speed-doubling technology, on-chip cache, and on-chip floating point unit.

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