



Intel® Dialogic® CPI/2400CT-T1 and CPI/3000CT-E1 High-Density Fax Boards

The Intel® Dialogic® CPI/2400CT-T1 and CPI/3000CT-E1 are single-slot, high-density fax boards that support a span of either 24 or 30 ports of feature-rich fax capabilities plus an integrated, on-board digital network interface.

These products are a key component of large-scale, computer-based fax applications for the enterprise (for example, fax servers).



The high-density, single-slot CPI/2400CT-T1 and CPI/3000CT-E1 enterprise fax boards are for large-scale, enterprise-wide deployments of computer-based-fax applications, providing either 24 or 30 ports of feature-rich fax capabilities plus an integrated network interface on a single board.

Intel in
Communications

Features and Benefits

High density: The CPI/2400CT-T1 and CPI/3000CT-E1 provide 24 or 30 send and receive intelligent fax ports plus on-board network interface all in a single slot. By providing high density and eliminating the need for a separate network interface board, they can help reduce overall system size and cost.

Short transmission time: Fast 14.4 KB/s fax transmission, both sending and receiving, concurrently on all channels, helps shorten transmission time and save on phone costs.

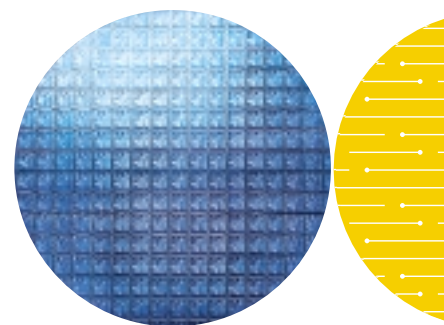
Worldwide compatibility: Compatibility with T.30 protocol and modifications helps ensure high compatibility with fax devices worldwide. T-1 and E-1 ISDN, and T-1 CAS protocol support also provides freedom to build solutions for the global marketplace.

Fast throughput: On-board and on-the-fly MH, MR, and MMR compression mean fast throughput, maximizing the number of pages a user can fax per minute and minimizing the amount of time spent on the phone.

Easy migration: The legacy GammaLink GDK API enables applications that support low-density CP series fax boards to benefit from highly-integrated, newer-generation CP series boards for a minimal development cost.

Operating system: These high-density fax boards support the Microsoft Windows® NT and Windows 2000 operating systems.

DSP based: These digital signal processor (DSP)-based boards provide maximum flexibility and future firmware upgradability.



The high resource density on the CPI/2400CT-T1 and CPI/3000CT-E1 fax boards can lower per-port costs, making it possible to deploy fewer boards per chassis and, ultimately, fewer and smaller chassis overall.

Configurations

The CPI/2400CT-T1 and CPI/3000CT-E1 high-density fax boards let system developers seamlessly add fax to existing CT applications.

Functional Description

The CP product line can scale from a single port with the CPI/100 to 30 ports with the CPI/3000CT-E1. All CP series boards are supported by the same developer's kit and developer interface. Applications written to support low-density CP series products can take advantage of the high-density enterprise fax boards, which also offer the exceptional T.30 connectivity for which the CP fax products are known.

For developers whose applications already support earlier fax products, the legacy GammaLink GDK API is available. This ensures a clear migration path and seamless integration of DM3-based products into existing applications, protecting a developer's investment in code.

Applications

- **Fax broadcast:** A fax broadcast system, which sends out numerous fax messages such as press releases in one easy operation, is an efficient way to save money on communications costs.
- **Unified messaging:** With high densities that allow for maximum lines in a minimal footprint, these fax boards are the ideal choice for adding fax capabilities to open, modular unified messaging solutions.
- **Fax server:** Using these high-density fax boards in a fax server application makes it simple and affordable to add fax to the communications infrastructure.
- **Fax on demand:** It's easy to reach out to customers by giving them easy telephone access to faxed information with no operator involvement. This is an ideal way to stretch a company's communications budget.

Technical Specifications

Number of ports	24 (CPI/2400CT-T1) or 30 (CPI/3000CT-E1) intelligent fax ports
Compliance	International Telecommunications Union (ITU) T.30 compliant
Maximum density per chassis	Three E-1 cards (90 channels) or four T-1 cards (96 channels)
Form factor	PCI
Compatibility	100% Group 3 compatible
Image width	A3, A4, or B4
Resolution	Normal (100 dpi) and fine (200 dpi)
Compression	MH, MR, and MMR, for both send and receive, both on-board and on-the-fly
Image conversion	TIFF-S, TIFF-F, and ASCII
Firmware	Downloadable and upgradeable
Transmission protocols	V.17 V.21 V.27 V.29
Transmission speed	14.4 Kb/s, send and receive, concurrently on all channels
Fax features	Polling Error Correction Mode (ECM) Bad scan line detection and correction
Protocols: T-1 CAS	E&M Loop start Ground start
Protocols: T-1 ISDN	DMS100* AT&T 4ESS* AT&T 5ESS* INS1500*
Protocols: E-1 ISDN	Euro-ISDN

Hardware Specifications

- Full-length board
- 100 MHz DSP
- Intel® I960® microprocessor
- 8 MB RAM/16 MB RAM global memory

System Requirements

- SR 5.1.1 call-out minimum for DM3 is 200MHZ with 128M (2 or fewer boards) or 512M (3 or more boards)
- Windows NT* 4.0 or Windows* 2000 operating system

To learn more, visit our site on the World Wide Web at www.intel.com

1515 Route Ten
Parsippany, NJ 07054
Phone: 1-973-993-3000
Fax: 1-973-993-3093

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