Datasheet

Intel® Dialogic® CPi/200B2 and CPi/400B2 Fax Boards

The Intel® Dialogic® CPi/200B2 and CPi/400B2 analog fax boards bring high transmission and reception speeds to enterprise computer-based fax applications like fax servers. The boards support up to 33.6 Kbps (V.34) transmission and reception speed on either two or four channels, which can lead to higher throughput, fewer lines needed, lower transmission costs, and lower cost of ownership for fax servers.

Intel in Communications

Fast Transmission for Enterprise Fax Applications

The Intel Dialogic CPi/200B2 and CPi/400B2 fax boards offer up to 33.6 Kb/s (V.34) transmission and reception speed, simultaneously on all channels, in both transmit and receive mode. This is more than twice as fast as older 14.4 kb/s (V.17) boards. You should see the results immediately: fewer fax lines, lower phone bills, and more faxes transmitted per line.

Features and Benefits

Fast Transmission Time — Up to 33.6 Kb/s (V.34) transmission and reception speed, simultaneously on all channels, in both transmit and receive mode. This is more than twice as fast as older 14.4 kb/s (V.17) boards.

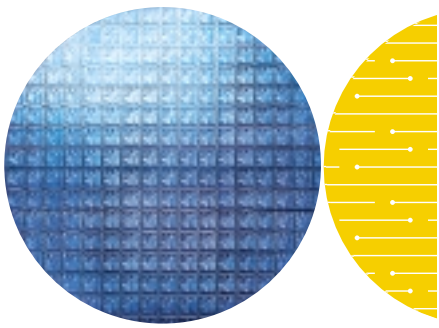
Worldwide compatibility — Compatibility with T.30 protocol and modifications helps ensure high compatibility with fax devices worldwide.

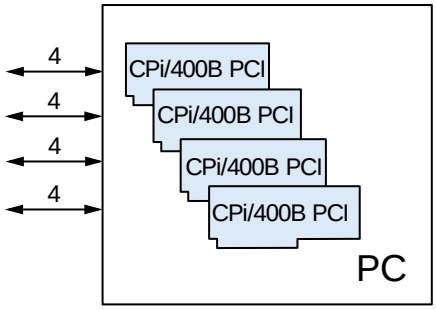
Fast throughput — On-board and on-the-fly MH, MR, and MMR compression mean fast throughput, maximizing the number of pages a user can fax per minute and minimizing the amount of time spent on the phone.

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 choice — Support for the Microsoft Windows* NT*, Windows 2000, and Windows XP* and RedHat* Linux* operating systems.

Scalable — Put up to four boards in one chassis for scalability up to 16 ports in a single chassis.





Configuration Diagram

PCI is Here to Stay

A growing demand for PC performance and processing power has led PC manufacturers to develop bus configurations such as PCI that can transport more bits of data at a faster rate. Intel delivers the Intel Dialogic CPi/200B2 and CPi/400B2 fax boards as a robust computer-based fax solution using PCI technology.

Configurations

The Intel Dialogic CPi/200B2 and CPi/400B2 boards are ideal solutions for computer-based fax installations that require PCI compatibility and fast transmission rates. They are designed to optimize network-based fax servers and customized applications, with two (CPi/200B2) or four (CPi/400B2) telephone line interface circuits approved for direct connection to analog loop start lines. The dual-processor architecture, made up of a modem and a microprocessor dedicated for each fax channel, provides transmission and reception speeds up to 33.6 Kb/s. An on-board switch can be set to a unique board number for each board within a multi-board configuration. Install multiple CPi/200B2 or CPi/400B2 boards in a single PC chassis to create cost-effective systems scalable up 16 ports.

Software Support

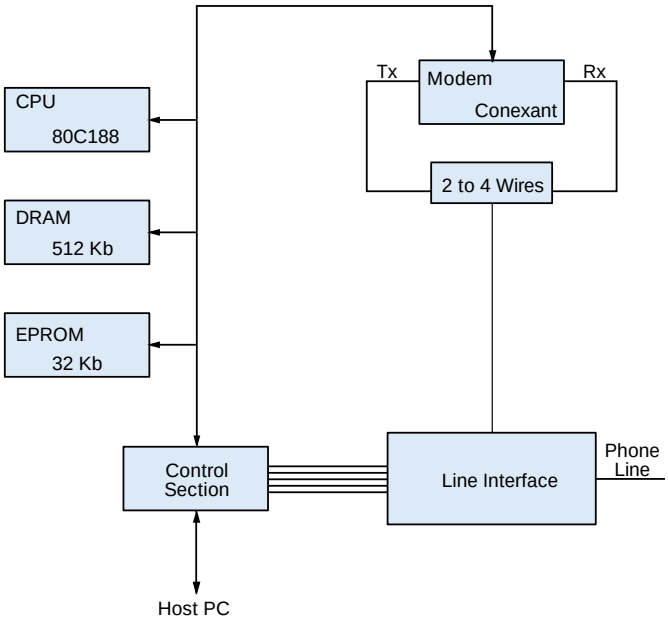
Intel simplifies development and deployment by making the CPi/200B2 and CPi/400B2 boards compatible with the Windows NT, Windows 2000, Windows XP, and RedHat Linux operating systems. This means support for a wide variety of applications including LAN fax, fax-on-demand (FOD), service bureaus, and more.

The CPi/200B2 and CPi/400B2 boards are supported by the GDK developer's kit for Windows NT, Windows 2000, Windows XP, and Linux.

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.

Functional Description



Functional Diagram

Technical Specifications**

Hardware

Form factor	PCI (5VDC)	
Size	Full size	
Telephony bus	None	
Power requirements	CPi/200B2	
	+5 VDC	0.8 A
	+12 VDC	8 mA
	-12 VDC	8 mA
Power requirements	CPi/400B2	
	+5 VDC	1.2 A
	+12 VDC 1	0 mA
	-12 VDC	10 mA
Operating temperature	0°C to +50°C	
Storage temperature	-20°C to +70°C	
Humidity	8 to 80% non-condensing	

Software

Operating systems	RedHat Linux Windows NT 4.0 Windows 2000 Windows XP
API	GDK

Technical Specifications** (cont.)

Fax Features

ITU	T.30, T.4, T.6 V.34, V.17, V29, V27ter, V.21
Speed	33.6 Kbps with automatic fallback, send and receive, concurrently on all channels. Note: Phone lines of excellent quality are required to enable an actual transmission or reception at 33.6 Kbps.
TIFF	Single page, multi-page
Compression	MH (ITU T.4, 1D) MR (ITU T.4 2D) MMR (ITU T.6) On-board and on-the-fly
ASCII to TIFF	On-board and on-the-fly
Page headers	Generated on-board and on-the-fly
ECM	Supported
Widths	A4, A3, B4
Resolution	Standard (100 x 200) Fine (200 x 200)

Network

Type	Analog
Connector	RJ-45

Safety and EMC Certifications

FCC	Approved
C-UL	Approved
UL	Approved
CE	Approved

System Requirements

SR 5.1.1 call-out min	200MHZ with 128M (2 or fewer boards) 512M (3 or more boards)
Operating system	Windows NT 4.0, Windows 2000, Windows XP, Linux RedHat

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