

# Dialogic® D/300 JCT-E1



Voice, Speech and Fax Analog Media Processing Resources

The Dialogic D/300 JCT-E1 is a next generation single span board specifically designed to support Speech, IVR, Messaging and Fax applications as a thirty-port primary rate ISDN board in a single PCI slot. It provides a single RJ 48C or BNC connection to the telephone interface circuits for direct connection to the Telco or telephone system. All 30 ports are available for Voice or Fax.

## FEATURES AND BENEFITS

<b>High channel per slot density</b>	With E1 Primary Rate 30 channels of voice processing are available.
<b>Supports continuous speech processing</b>	Flexible speech processing combined with efficient drivers allows the data to be offloaded real time to onboard DSP's, reducing latency and improving overall system response times.
<b>Supports up to thirty channels of DSP based onboard fax or speech recognition</b>	Reduces the number of boards per system.
<b>Supports G.726 Bit exact and GSM coders</b>	Allows developers to implement messaging applications which meet VPIM standards.
<b>Universal 32-bit PCI edge connector for compatibility with 3.3V &amp; 5.0V bus signals</b>	Enables deployment in a wide variety of PCI chassis from popular manufacturers.
<b>Silence compressed recording</b>	Eliminates silence and preserves hard disk space.
<b>H.100 Connector</b>	Enables development using industry standard CT Bus and increases the board's capacity to interoperate with other CT Bus compatible boards.

## D300 JCT-E1 SPECIFICATIONS

### HARDWARE

#### E1 Platform

CPU	Two Dialogic 486 @ 32.7MHz
DSPs	Three Motorola DSP56303 @ 100 MHz, with 256K word private, two wait state SRAM
Media channels	Up to 30 voice or up to 30 V.17 fax or a combination
Telephone interface and signalling	BNC for 75Ohm lines or RJ48C for 120 Ohm lines
Physical	PCI Full-size Universal slot (5V or 3.3V)
Resource Bus	CT Bus H.100
Maximum Boards per system	16

### VOICE PROCESSING

64Kbps PCM $\mu$ -law and A-law (8kHz sample rate)
48Kbps PCM $\mu$ -law and A-law (6kHz sample rate)
32Kbps G.726 (8 KHz sample rate)
32Kbps OKI ADPCM (8kHz sample rate)
24Kbps OKI ADPCM (6kHz sample rate)
13 Kbps GSM (8kHz sample rate)

Playback speed control, pitch controlled  
Automatic gain control (AGC)  
Silence detection

### FAX

ITU T.30; Group 3  
14,400 b/s (v.17) send 9600 b/s receive  
Resolution: 100x200 normal and 200x200 fine  
Transmit and Receive modes: MH and MR  
Image widths A4 and Letter  
Error Correction Mode (ECM)  
ASCII to Fax conversion with direct transmission of text files

### CALL PROGRESS AND CALL CONTROL

International busy tone detection  
International ring call progress detection  
Positive voice detection in as little as 1/10th of a second  
Dial tone detection before dialing

### OPERATING SYSTEM SUPPORT

Windows 2000 Server, 2003 Server and XP Professional



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