

Dialogic® D/600 JCT-1E1



Voice, Speech and Fax Analog Media Processing Resources

The Dialogic D/600 JCT-1E1 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 two RJ 48C or BNC connections 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

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

D600 JCT-1E1 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 μ -law and A-law (8kHz sample rate)
48Kbps PCM μ -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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