

Dialogic D/120JCT-LS
Combined Media Board



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\$2995.00

In Stock

Qty Available: 2

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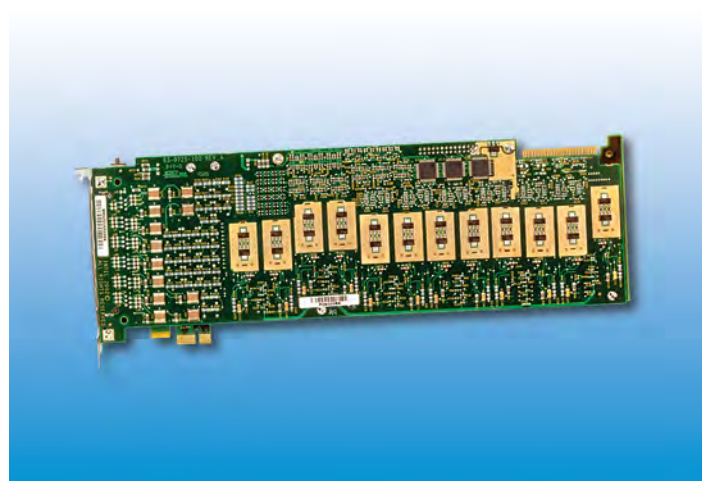
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Dialogic® D/120JCT-LS Media Board

The Dialogic® D/120JCT-LS Media Board is a 12-port analog PCI or PCI Express board well-suited for developing advanced communications applications that require multimedia resources. This high performance, scalable product supports voice, fax, and software-based speech recognition processing in a single PCI or PCI Express slot, providing 12 analog telephone interface circuits for direct connection to analog loop start lines.

Dialogic® JCT Media Boards – including this model - can be used by developers to provide small- and medium-sized enterprise Computer Telephony (CT) applications that require high-performance voice and fax processing. Among the features and benefits of these boards, and other Dialogic® JCT Media Boards, are the following. They use Digital Signal Processor (DSP) voice processing technology, making them well-suited for server-based CT systems under Windows and Linux. They also provide a powerful platform for creating sophisticated Interactive Voice Response (IVR) applications for the small and medium-sized enterprise market segment. Their Caller ID support lets applications, such as IVR, receive calling party information via a telephone trunk line; Caller ID is supported for North America (CLASS protocol), the United Kingdom (CLI protocol), and in Japan (CLIP protocol). Features such as fax and software-based speech recognition processing enable unified messaging applications. They also provide Automatic Gain Control (AGC), so even a weak telephone signal can be recorded and replayed with complete clarity.



Features	Benefits
Supports G.726 bit exact and GSM coders	Enables implementation of unified messaging applications that meet VPIM standards
Supports Continuous Speech Processing (CSP)	Provides a flexible speech processing technology, which, when coupled with efficient drivers, off-loads critical real-time signal processing in speech-enabled applications to on-board DSPs. Reduces system latency, increases recognition accuracy, and improves overall system response time for high-density speech solutions.
A-law or μ-law voice coding at dynamically selectable data rates, 24 kbit/s to 64 kbit/s, selectable on a channel-by-channel basis	Allows for a beneficial tradeoff between disk storage and voice quality
Telcordia CLASS, UK CLI, Japanese Caller ID, and other international protocols	Supports an international Caller ID capability via on-hook audio path
A variety of country-specific approvals	Expands an application's ability to serve several global market segments at no extra cost
Separate models available with Universal PCI or PCI Express edge connector	Universal PCI form factor compatible with 3.3 V and 5.0 V bus signals; and PCI Express form factor compatible with x1 lane configuration or higher.
Supports up to four (4) channels of DSP-based on-board fax	Reduces the number of boards per system

Technical Specifications

Number of ports	12
Maximum boards per system	8 (Linux and Windows). Number may be limited by application and system performance
CT Bus loads per board	1
Maximum CT Bus loads per system	20
Analog network interface	On-board loop start interface (12)
Resource sharing bus	CT Bus
Control microprocessor	Intel 80486 GXSF running at 32.768 MHz with 2 MB SDRAM
Digital signal processor	Freescale DSP56303 @ 100 MHz, with 128Kx24 private SRAM
Supported operating systems	Linux: Dialogic® System Release 6.1 SU; Windows: Dialogic® System Release 6.0 SU. Details at http://www.dialogic.com/systemreleases
CSP	Yes
FAX	Yes
Signaling	Analog loop start

Host Interface — PCI

Bus compatibility	Complies with PCI-SIG Bus Specification, Rev. 2.2
Bus speed	33 MHz maximum
Bus mode	32-bit
Shared memory	32 KB to 64 KB page
Interrupt level	1 IRQ (INTA) shared by Dialogic® JCT Media Boards, including Dialogic® D/4PCIUF and D/4PCIU4S Media Board models
I/O ports	None

Platform — PCI

Form factor	Universal slot (5 V or 3.3 V) PCI long card 12.28 in. (31.2 cm) long 4.2 in. (10.67 cm) high
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Power Requirements — PCI

+5 VDC	1.2 A typical; 1.4 A maximum
+12 VDC	235 mA typical; 285 mA maximum
–12 VDC	80 mA typical; 100 mA maximum

Host Interface — PCI Express

Bus compatibility	Complies with PCI-SIG PCI Express Base Specification, Rev. 1.1
Bus speed	2.5 GHz maximum per direction
Bus mode	x1 lane configuration (x1 or higher compatible)
Shared memory	32 KB to 64 KB page
Interrupt level	1 IRQ (INTA) shared by Dialogic® JCT Media Boards, including Dialogic® D/4PCIUF and D/4PCIU4S Media Board models
I/O ports	None

Platform — PCI Express

Form factor	PCI Express x1 lane configuration (or higher)
	12.28 in. (31.2 cm) long
	4.2 in. (10.67 cm) high

Power Requirements — PCI Express

+3.3 VDC	1.12 A typical, 1.4 A maximum
+12 VDC	800 mA typical, 900 mA maximum

Environmental Requirements — PCI and PCI Express

Operating temperature	+32°F (0°C) to +122°F (+50°C)
Storage temperature	-4°F (-20°C) to 158°F (+70°C)
Humidity	8% to 80% noncondensing

Telephone Interface†

Trunk type	Loop start Ground start for inbound applications with AC ringing
Impedance	600 Ohms nominal
Ring detection	40 Vrms to 130 Vrms, 15.3 Hz to 68.0 Hz (each configurable by parameter**)
Loop current range	20 mA to 60 mA, (Euro) 20 mA to 120 mA, polarity insensitive
Echo return loss	17 dB minimum (at country impedance)
Crosstalk coupling	>-75 dB
Speech digitization	64 kbit/s, μ -law PCM
Frequency response	300 Hz to 3400 Hz \pm 3 dB (transmit and receive)
Connector	RJ-25, 6-port, 6-position

Approvals and Compliance

Hazardous substances	RoHS Compliance Information at A Guide to RoHS Compliance at Dialogic
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Safety

Canada	CSA 60950-1
United States	UL 60950-1
Europe	EN 60950-1
International	IEC 60950-1

EMC

Canada	ICES-003 Class A
United States	FCC Part 15 Class A
Europe	EN55022/EN55024, CISPR22/CISPR24, ETSI EN 300386
Japan	VCCI Class A

Telecom Approvals

Canada	CS-03
United States	FCC Part 68
European Union	TBR 21
Japan	JATE Blue Book

Country-specific approvals

See the Product Declarations & Global Approvals list at <http://www.dialogic.com/declarations/> or contact your Authorized Distributor**Reliability/Warranty**

Estimated MTBF

Per Telcordia Method
PCI: 154,000 hours
PCI Express: 154,000 hours

Warranty

Warranty Information at <http://www.dialogic.com/warranties>

† Average speech mandates +16 dB peaks above average and preserves –13 dB valleys below average.

** Analog levels: 0 dBm0 corresponds to a level of +3 dBm at tip-ring analog point. Values vary depending on country requirements; contact your account manager

Springware/JCT Technical Specifications**Facsimile**

Fax compatibility

ITU-T G3 compliant (T.4, T.30)
ETSI NET/30 compliant

Maximum data rate

14.4 kbit/s (v.17) send
9.6 kbit/s (v.29) receive

Variable speed selection

Automatic step-down to 12,000 bit/s, 9600 bit/s, 7200 bit/s, 4800 bit/s, and lower

Transmit data modes

Modified Huffman (MH)
Modified Read (MR)

Receive data modes

MH, MR

File data formats

Tagged Image File Format-Fax (TIFF-F) for transmit/receive MH and MR

ASCII-to-fax conversion

Host-PC-based conversion
Direct transmission of text files
Windows fonts supported
Page headers generated automatically

Error correction

Detection, reporting, and correction of faulty scan lines

Image widths

1728 pixels
2048 pixels
2432 pixels

Image scaling

Automatic horizontal and vertical scaling between page sizes

Polling modes

Normal
Turnaround

Image resolution

Normal (203 pels/in. x 98 lines/in.; 203 pels/2.54 cm x 98 lines/2.54 cm)
Fine (203 pels/in. x 196 lines/in.; 203 pels/2.54 cm x 196 lines/2.54 cm)

Fill minimization

Automatic fill bit insertion and stripping

Audio Signal

Receive range

–40 dBm to –7 dBm nominal, configurable by parameter**

Automatic gain control

Application can enable/disable
Above –22 dBm results in full-scale recording, configurable by parameter**

Silence detection

–40 dBm nominal, software adjustable**

Transmit level (weighted average)

–9.5 dBm nominal, configurable by parameter**

Transmit volume control

40 dB adjustment range, with application-definable increments, capped according to country-specific regulations

Frequency Response

24 kbit/s	300 Hz to 2600 Hz ± 3 dB
32 kbit/s	300 Hz to 3400 Hz ± 3 dB
48 kbit/s	300 Hz to 2600 Hz ± 3 dB
64 kbit/s	300 Hz to 3400 Hz ± 3 dB

Audio Digitizing

13 kbit/s	GSM 6.10 @ 8 kHz sampling
24 kbit/s	4-bit OKI ADPCM @ 6 kHz sampling
32 kbit/s	4-bit OKI ADPCM @ 8 kHz sampling
32 kbit/s	G.726 @ 8 kHz sampling
48 kbit/s	G.711 μ -law PCM @ 6 kHz sampling
64 kbit/s	G.711 μ -law PCM @ 8 kHz sampling
Digitization selection	Selectable by application on function call-by-call basis
Playback speed control	Pitch controlled Available for 24 kbit/s and 32 kbit/s data rates Adjustment range: $\pm 50\%$ Adjustable through application or programmable DTMF control

DTMF Tone Detection

DTMF digits	0 to 9, *, #, A, B, C, D per Telcordia LSSGR Sec 6
Dynamic range	-38 dBm0 to -3 dBm0 per tone, configurable by parameter**
Minimum tone duration	40 ms, can be increased with software configuration
Interdigit timing	Detects like digits with a >40 ms interdigit delay Detects different digits with a 0 ms interdigit delay
Twist and frequency variation	Meets Telcordia LSSGR Sec 6 and EIA 464 requirements
Noise tolerance	Meets Telcordia LSSGR Sec 6 and EIA 464 requirements for Gaussian, impulse, and power line noise tolerance
Cut-through	Local echo cancellation permits 100% detection with a >4.5 dB return loss line
Talk-off	Detects less than 20 digits while monitoring Telcordia TR-TSY-000763 standard speech tapes (LSSGR requirements specify detecting no more than 470 total digits) Detects zero (0) digits while monitoring MITEL speech tape #CM 7291

Global Tone Detection

Tone type	Programmable for single or dual
Maximum number of tones	Application-dependent
Frequency range	Programmable within 300 Hz to 3500 Hz
Maximum frequency deviation	Programmable in 5 Hz increments
Frequency resolution	± 5 Hz. Separation of dual-frequency tones is limited to 62.5 Hz at a signal-to-noise ratio of 20 dB
Timing	Programmable cadence qualifier, in 10 ms increments
Dynamic range	Programmable, default set at -6 dBm0 to -3 dBm0 per tone

Global Tone Generation

Tone type	Generate single or dual tones
Frequency range	Programmable within 200 Hz to 4000 Hz
Frequency resolution	1 Hz
Duration	10 ms increments
Amplitude	Programmable within -43 dBm to -3 dBm per tone

MF Signaling

MF digits	0 to 9, KP, ST, ST1, ST2, ST3 per Telcordia LSSGR Sec 6, TR-NWT-000506 and ITU-T Q.321
Transmit level	Complies with Telcordia LSSGR Sec 6, TR-NWT-000506
Signaling mechanism	Complies with Telcordia LSSGR Sec 6, TR-NWT-000506
Dynamic range for detection	-25 dBm0 to -3 dBm0 per tone
Acceptable twist	6 dB
Acceptable freq. variation	Less than ± 1 Hz

Call Progress Analysis

Busy tone detection	Default setting designed to detect 74 out of 76 unique busy/congestion tones used in 97 countries as specified by ITU-T Rec. E., Suppl. #2 Default uses both frequency and cadence detection Application can select frequency only for faster detection in specific environments
Ring back detection	Default setting designed to detect 83 out of 87 unique ring back tones used in 96 countries as specified by ITU-T Rec. E., Suppl. #2 Uses both frequency and cadence detection
Positive voice detection accuracy	>99% based on tests on a database of real world calls in North America (Performance in other markets may vary)
Positive voice detection speed	Detects voice in as little as 1/10th of a second
Positive answering machine detection accuracy	>85% based on application and environment
Fax/modem detection	Preprogrammed
Intercept detection	Detects entire sequence of the North American Special Information Tone(s) (SIT) Other SIT sequences can be programmed
Dial tone detection before dialing	Application enable/disable Supports up to three (3) different user-definable dial tones Programmable dial tone drop out debouncing

Tone Dialing

DTMF digits	0 to 9, *, #, A, B, C, D per Telcordia LSSGR Sec 6, TR-NWT-000506
Frequency variation	Less than ± 1 Hz
Rate	10 digits/s maximum, configurable by parameter**
Level	-4.0 dBm per tone, nominal, configurable by parameter**

Pulse Dialing

10 digits	0 to 9
Pulsing rate	10 pulses/s, nominal 20 pulses/s for Japan, configurable by parameter**
Break ratio	60% nominal, configurable by parameter**

Analog Caller Identification

Applicable standards	Telcordia TR-TSY-000030 Telcordia TR-TSY-000031 TAS T5 PSTN1 ACLIP: 1994 (Singapore)
Modem standard	Bell 202 or V.23, serial 1200 bits/sec (simplex FSK signaling)
Receive sensitivity	−48 dBm (−50 dBv) to −1 dBm
Noise tolerance	Minimum 18 dB SNR over 0 to −48 dBm dynamic range
Data formats	Single Data Message (SDM) and Multiple Data Message (MDM) formats via API calls and commands
Line impedance	AC coupled 600 Ohm (@ 1.8 kHz) termination during Caller ID on-hook detection interval
Message formats	ASCII or binary SDM, MDM message content

Analog Display Services Interface (ADSI)

FSK generation per Telcordia TR-NWT-000030
CAS tone generation and DTMF detection per Telcordia TR-NWT-001273

** Analog levels: 0 dBm0 corresponds to a level of +3 dBm at tip-ring analog point. Values vary depending on country requirements; contact your account manager

Hardware System Requirements

- Pentium processor based (PCI or PCI Express) bus or compatible computer
- Operating system hardware requirements vary according to the number of channels being used

Additional Components (with Item Names) sold separately

- Multidrop CT Bus cables (CBLCTB3DROPQ, CBLCTB4DROPQ, CBLCTB8DROPQ, CBLCTB12DROPQ, CBLCTB16DROPQ)
- Six-strand RJ-type cable [recommended solution for customers using all 12 channels] [RJ-11 connectors to standard 50-pin Amphenol connector] (CBLD120PCI25PPQ) plus breakout box (BOB25POSJ11W)
- “Two-into-one” conversion cable [recommended solution for customers using only one or two channels]
 - Six (6) cables per board required
 - US (CBLRJ14RJ11YAQ) and Euro (CBLD120PCIYADPQ) cables

Ordering Information

Item Name	Code	Product Description
D120JCTLSWEU	881-816	12-port Analog, Loop-Start, PCI, Europe
D120JCTLSW	881-762	12-port Analog, Loop-Start, PCI
D120JCTLSWIN	881-847	12-port Analog, Loop-Start, PCI, India
D120JCTLSEW	884-594	12-port Analog, Loop-Start, PCIe
D120JCTLSEWIN	884-579	12-port Analog, Loop-Start, PCIe, India
D120JCTLSEWEU	884-578	12-port Analog, Loop-Start, PCIe, Europe



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Positive Answering Machine Detection/Positive Voice Detection

These performance results were measured using specific computer systems and/or components within specific lab environments and under specific system configurations. Any difference in system hardware, software design, or configuration may affect actual performance. The results are furnished for informational use only and should not be construed as a commitment by Dialogic. Dialogic assumes no responsibility or liability for any errors or inaccuracies.

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