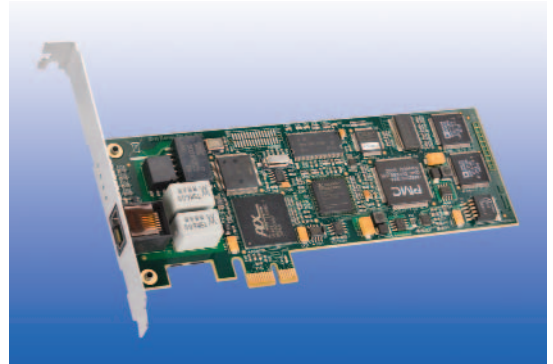


## Dialogic® Diva® PRI/E1/T1-CTI Voice Board

The Dialogic® Diva® PRI/E1/T1-CTI Media Board is a simple, powerful, yet cost-effective entry-level platform for computer telephony integration applications such as voice mail, IVR, call centers, and alarm servers that increase productivity and improve customer satisfaction. The Diva PRI/E1/T1-CTI also provides the benefits of both seamless connectivity to the telephone network and comprehensive call control capabilities.



Offering E1, T1, or ISDN PRI digital network interfaces, the Diva PRI/E1/T1-CTI provides proven connectivity with a wide range of PBX and switch systems. Because of its comprehensive implementation of signaling protocols, including all international ISDN variants and QSIG, the Diva PRI/E1/T1-CTI also enables many sophisticated supplementary services, which can then be used by computer telephony integration applications.

Designed for full-duplex operation on every channel, simultaneous voice prompt streaming and recording are available for every active call. Powerful DTMF recognition and generation capabilities provide the in-band control required for voice mail and IVR applications.

Features	Benefits
<b>Comprehensive set of voice processing features including built-in DTMF dedicated to each channel and full-duplex operation on each channel</b>	Enables many popular computer telephony integration applications, including IVR barge-in
<b>Other Dialogic® Diva® boards can be used with the Diva PRI/E1/T1-CTI without modification</b>	Minimizes porting and reduces time to market
<b>Up to eight Dialogic Diva boards can be used in the same system along with the Diva PRI/E1/T1-CTI</b>	Allows easy scalability from 2 to 240 channels
<b>Half-size PCI form factor</b>	Fits into compact systems
<b>GUI-based configuration</b>	Makes configuration simple and straightforward
<b>Conforms to plug and play standards</b>	Easy installation

## Technical Specifications

### Quick Reference

Voice resources	24 (T1) or 30 (E1)
Fax resources	0
Conferencing resources	0
Maximum boards/system	8
CSP	No
Form factor	PCI version: Half-size PCI; PCI Express version: Low-profile PCIe
Resource bus	PCI version: PCI rev 2.2 up to 66 MHz PCI Express version: PCI Express 1.0a x1 lane (3.3/12 V)
Connection	RJ-45
Network interface	PRI, T1, and E1
Signaling	ETSI, NI-1, 4ESS, 5ESS, and all major ISDN protocols; QSIG, T1/RBS, SS7 (ITU-T ISUP), and many more
Operating system	Windows®; Linux. Details at <a href="http://www.dialogic.com/systemreleases">http://www.dialogic.com/systemreleases</a>
Volts	PCI: 3.3 V, 5 V or PCI Express: 3.3 V, 12 V
Required accessories	PRI/E1/T1 cable (RJ-45/RJ-45)

### Hardware

- Active ISDN adapter for Primary Rate Interface (PRI)
- 1 X RJ-45 connector
- 64-bit RISC CPU, 300 MHz, 420 MIPS
- 2 x 33 DSP, 33 MHz, 60 MIPS each
- 32 MB onboard SDRAM Memory
- Plug and play interface
- I/O addresses and interrupt are placed by the system
- Power down management
- Telephony interface
  - RJ-45 connector with software-selectable PRI/E1/T1 interface
  - High-impedance mode for passive monitoring
- Physical dimensions:
  - PCI version (half-size):
    - 174.63 mm x 106.68 mm
    - 187.84 mm x 126.37 mm (including bracket and retainer)
  - PCI Express version (low-profile):
    - 167.52 mm x 64.41 mm (PCB)
    - 181.36 mm x 120.88 mm (with standard bracket)
    - 181.36 mm x 80.06 mm (with Low Profile bracket)
- Production quality: ISO 9002

### Power Consumption and Environmental

- Power consumption: typical 580 mA @ +5 V
- Operating temperature: 10°C to 50°C
- Storage temperature: 0°C to 70°C
- Maximum tolerance in voltage fluctuation: According to the respective PCI or PCI Express specification

### Driver Software

- Supported operating systems: Windows®; Linux. Details at <http://www.dialogic.com/systemreleases>
- D-channel and signaling protocols: ETSI-DSS1 (Euro-ISDN), NI-1 (North America National ISDN 1), 1TR6 (Germany), NET3 (Belgium), VN3/4/6 (France), 4ESS (AT&T), 5ESS (AT&T), 5ESS (Lucent), DMS100 (Nortel), T1/RBS (Robbed Bit Signaling), INS-64 (Japan), INS-1500 (Japan), Australia on-ramp, QSIG, Channelized E1, External Signaling (transparent D-channel), Direct Access Mode (no signaling), Network Termination (NT Mode)
- B-channel protocols: Transparent HDLC, Transparent (Voice), Synchronous PPP and MLPPP, X.75 (LAPB), X.25, T.90NL, T.70NL, Rate adaptation (56 kbps), V.42bis, V.120, PIAFS
- Application interfaces: Microsoft®: WAN Miniport, COM Port, TAPI, CAPI 2.0, extended CAPI, Dialogic® Diva® API, Component API (VB6 and VB.NET), VoIP (SIP/RTP); Linux: TTY, CAPI 2.0, extended CAPI, Diva API, VoIP (SIP/RTP)

## Technical Specifications (cont.)

### Driver Software (cont.)

- Diagnostic tools: B-channel and D-channel trace program
- Dialogic® Diva® Software Development Kit - 4.5 (Diva SDK 4.5): Windows® and Linux
- M-adapter feature (patent pending): Combined Virtual Adapter, Internal Call Transfer, Explicit Call Transfer Emulation
- SNMP support: Windows: v2c; Linux: Net-SNMP v1, v2c and v3

### Features

- Voice
  - G.711 coding (A-law,  $\mu$ -law selectable)
  - Full-duplex voice, barge-in
  - DTMF detection and generation
  - Recording and playback
  - OKI ADPCM, 8 KHz sampling
  - Audio tapping
- Switching and conferencing
  - Onboard switching
  - Cross-board switching
- ISDN supplementary services
  - Number identification services (CLIP, CLIR, COLP, COLR, KEY, MSN, DDI, SUB)
  - Call offering services (TP, CFU, CFB, CFNR)
  - Call completion services (CW, HOLD, ECT)
  - Charging services (AoC)
  - Three-party conference
  - Large conference
- Fax
  - Support for fax Group 4 (via third party application)
- Remote access features
  - Via HDLC, V.90, GSM, V.120, X.75

### Safety and EMC

Canada	ICES-003 Class B, CSA 60950-1
Europe	EN60950-1, EN55022, EN55024
United States	FCC Part 15 Class B UL60950-1

### Telecommunications

United States	TIA-968
Canada	CS03

### Approvals, Compliance, and Warranty

Hazardous substances	RoHS compliance information at <a href="http://www.dialogic.com/rohs">http://www.dialogic.com/rohs</a>
Country-specific approvals	Global product approvals database at <a href="http://www.dialogic.com/declarations">http://www.dialogic.com/declarations</a>
Warranty	Warranty information at <a href="http://www.dialogic.com/warranties">http://www.dialogic.com/warranties</a>

## Ordering Information

Dialogic® Diva® Product	Order Code
PRI/E1/T1-CTI PCI	306-211
PRI/E1/T1-CTI PCI North America	306-212
PRI/E1/T1-CTI PCI China	306-244
PRI/E1/T1-CTI PCI Australia	306-228
PRI/E1/T1-CTI PCI Japan	306-278
PRI/E1/T1-CTI PCIe (with additional LP bracket)	306-320

To learn more, visit <http://www.dialogic.com>

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08/07 10501-01