

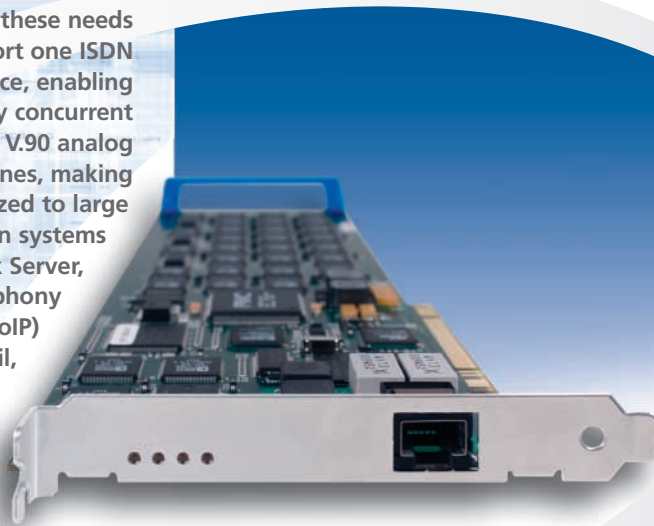
# Diva™ Server PRI

Today's network administrators face the challenge of streamlining their network administration without sacrificing performance. They need a flexible solution that allows one server to manage all the fax, messaging, and remote access needs of their organization.

The Diva Server PRI adapters answer all these needs perfectly. These active PCI adapters support one ISDN Primary Rate Interface (PRI), E1 or T1 interface, enabling one server to support up to thirty concurrent communications with a mix of ISDN devices, V.90 analog modems, GSM mobile phones and fax machines, making it an excellent choice for medium-sized to large businesses. They are based on open systems architecture so that industry-leading Fax Server, Unified Messaging, Computer Telephony Integration (CTI) and Voice over IP (VoIP) applications integrate easily. All email, voicemail and fax can be managed on a single server. Upgrading the server with new enhancements is easy as free software upgrades are available via the web.

The flexibility of the Diva Server PRI adapters provides network administrators with a simple, cost-effective, and powerful open communications solution.

## The Ultimate Fax, Voice and Data Platform for PRI, E1 and T1



### Key Benefits

#### Supports Best-of-Breed Applications

The support of standardized software interfaces, such as CAPI 2.0 or TAPI enable the Diva Server PRI adapters to be used with industry-leading software packages, enabling the network administrator to build a communication server that best suits their needs.

#### Free Software Development Kit

The Diva Server SDK makes it easy for software vendors to develop their own communication application for the Diva Server PRI adapters.

#### Scaleable

Multiple Diva Server PRI adapters can be mixed and matched in one system in combination with any other Diva Server adapter to meet an organization's increasing communication needs.

#### High Performance

On-board CPU and digital signal processors (DSPs) remove performance bottlenecks, as they perform key real-time tasks that would ordinarily cause an excessive burden on the host server.

#### Fax and Unified Messaging Server

The Diva Server PRI adapters support third party software applications giving complete support for Group 3 fax, voice mail and email messages. Features include DTMF, ECM, MR, MMR, MH and 33.6 kbps Fax. V.42bis compression and V.42 error-correction ensure fast and reliable transmissions for modems and fax.

#### CTI Server

With support of CAPI, TAPI and Diva Server SDK, the Diva Server PRI adapters fully feature any CTI server application. A full provision of supplementary services, such as call forwarding and explicit call transfer makes the Diva Server PRI an ideal solution for third party Interactive Voice Response (IVR) and Contact Center applications.

#### Voice over IP (VoIP)

The Diva Server PRI adapters support third party software giving complete support for VoIP Soft-PBXs. High performance is guaranteed with support for echo cancellation (G.168) and voice compression in the DSP of the adapter.

#### Optimum Selection

Different versions of Diva Server PRI adapters are available to perfectly meet the needs of your organization. They include the Diva Server PRI/E1/T1 for digital only functionality and CTI solutions, the Diva Server PRI/E1-30 and the smaller scale solutions Diva Server PRI/E1/T1-8.

#### Easy to Install

The ease of installation is guaranteed as the Diva Server PRI adapters conform to Intel and Microsoft Plug and Play standards, eliminating the need to manually configure the server.

#### Ready to use worldwide

With support for all the multinational ISDN protocols, the Diva Server PRI adapters are ready for use virtually anywhere in the world.

#### 5 year warranty

Backed by one of the most extensive warranty agreements in the industry.

## Technical Specifications

<b>Hardware:</b>	<ul style="list-style-type: none"> <li>Active ISDN adapter for Primary Rate Interface (PRI), E1 and T1 interface</li> <li>Plug and Play Interface</li> <li>Bus type: PCI rev. 2.2 (3.3V / 5V)</li> <li>RJ45 Connector</li> <li>64-bit RISC CPU, 300 MHz, 420 MIPS</li> <li>2 x 33 MHz, 60 MIPS DSP for digital-only communication with Diva Server PRI/E1/T1</li> <li>10 x 33 MHz, 60 MIPS DSP with Diva Server PRI/E1/T1-8</li> </ul>	<ul style="list-style-type: none"> <li>31 x 33 MHz, 60 MIPS DSP with Diva Server PRI/E1-30</li> <li>32 MB onboard SDRAM</li> <li>Form factor Diva Server PRI/E1/T1 and PRI/E1/T1-8: Half size PCI</li> <li>Form factor Diva Server PRI/E1-30: Full size PCI</li> <li>Scaleable to 4 adapters per system</li> <li>I/O Addresses and Interrupt are placed by the system</li> <li>Power Down Management</li> <li>Production Quality: ISO 9002</li> <li>5 year warranty</li> </ul>
<b>Power Consumption and Environmental</b>	<ul style="list-style-type: none"> <li>Power consumption: 0.92 A @+5 V typ., 2,6 A @+5V max.</li> <li>Operating temperature: 10°C to 50°C</li> <li>Storage temperature: 0°C to 70°C</li> </ul>	<ul style="list-style-type: none"> <li>Operating humidity: 10% to 90% (non-condensing)</li> <li>Maximum tolerance in power supply variation: -5% to +5%</li> </ul>
<b>Driver Software</b>	<ul style="list-style-type: none"> <li><b>Supported operating systems:</b> Windows Server 2003, Windows XP Professional, Windows 2000, Windows NT, Linux, NetWare</li> <li><b>D-Channel and Signaling Protocols:</b> ETSI-DSS1 (Euro-ISDN), NI-1 (North America National ISDN 1), 1TR6 (Germany), NET3 (Belgium), VN3/4/6 (France), 4ESS (AT&amp;T), 5ESS (AT&amp;T), 5ESS (Lucent), DMS100 (Nortel), T1 – Robbed Bit Signaling, INS-64 (Japan), INS-1500 (Japan), Australia on-ramp, Q-SIG, E1-R2 (China), E1-R2 (India), Channelized E1, External Signaling (transparent D-channel), Direct Access Mode (no signaling), Network Termination (NT Mode)</li> <li><b>B-Channel Protocols:</b> HDLC, Synchronous PPP and MLPPP, X.75 (LAPB), Transparent, X.25, T.30<sup>1</sup>, T.90NL, T.70NL, Rate adaptation (56 kbps), up to V.90<sup>1</sup>, V.42<sup>1</sup>, V.42bis, V.110<sup>1</sup>, V.120, PIAFS<sup>1</sup></li> <li><b>Application Interfaces:</b> WAN Miniport, COM Port, CAPI 2.0, TAPI, Linux: TTY, CAPI 2.0, Netware: CAPI 2.0</li> <li><b>Diagnostic Tools:</b> B-channel and D-channel trace program</li> </ul>	
<b>Fax and Voice features:</b>	<ul style="list-style-type: none"> <li>DTMF transmission, detection and generation</li> <li>Supplementary Services <ul style="list-style-type: none"> <li>Number identification services (CLIP, CLIR, COLP, COLR, KEY, MSN, DDI, SUB)</li> <li>Call offering services (TP, CFU, CFB, CFNR)</li> <li>Call completion services (CW, HOLD, ECT)</li> <li>Charging Services (AoC)</li> <li>Three-party conference</li> <li>Large Conference</li> </ul> </li> <li>Fax group 3 support<sup>1,2</sup> <ul style="list-style-type: none"> <li>Up to 33.600 bps with each B-channel (send and receive)</li> <li>Fax compression MH, MR, MMR</li> <li>Error Correction Mode (ECM)</li> <li>Fax polling/ Fax on demand</li> <li>Fax tone detection</li> <li>Standard, fine, super-fine and ultra-fine resolution</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>VoIP Gateway support<sup>1</sup> <ul style="list-style-type: none"> <li>G.711 voice codec (64 kb/s, <math>\mu</math>-law, A-law)</li> <li>G.726 voice codec (32 kb/s)</li> <li>GSM voice codec (13 kb/s)</li> <li>G.168 echo cancellation, up to 32 ms tail length</li> <li>Adaptive jitter buffer</li> <li>Voice activity detection (VAD)</li> <li>Comfort noise generation (CNG)</li> <li>Real Time Protocol (RTP) framing</li> </ul> </li> <li>Support for fax class 1 and 2<sup>1,2</sup></li> <li>Fax group 4 support</li> <li>Remote Access (via HDLC, V.90, GSM, V.120, X.75) <ul style="list-style-type: none"> <li>GSM support (V.110) up to 38.400 bps<sup>1,2</sup></li> <li>Communicates with analog modems (up to V.90). Up to 56.000 bps with each B-channel<sup>1,2</sup></li> </ul> </li> </ul>

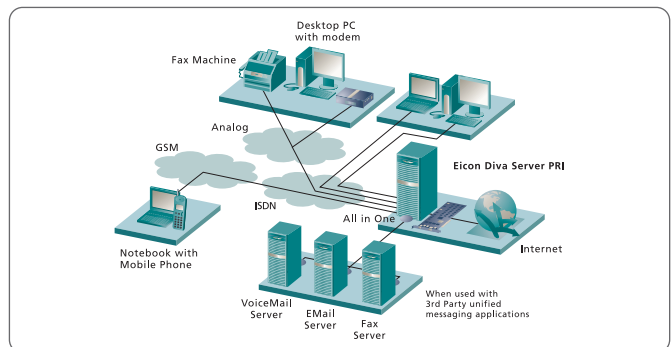
<sup>1</sup> Not available with Diva Server PRI/E1/T1

<sup>2</sup> Diva Server PRI/E1/T1-8 supports up to 8 analog, fax and GSM sessions on fractional PRI lines with 8 channels

## Ordering Information

Product Name	Product Code
Diva Server PRI/E1/T1	306-211
Diva Server PRI/E1/T1-8	306-206
Diva Server PRI/E1-30	306-209

National variants might be available. Please contact the Eicon Networks office in your region or look at [www.eicon.com](http://www.eicon.com) for further information.



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