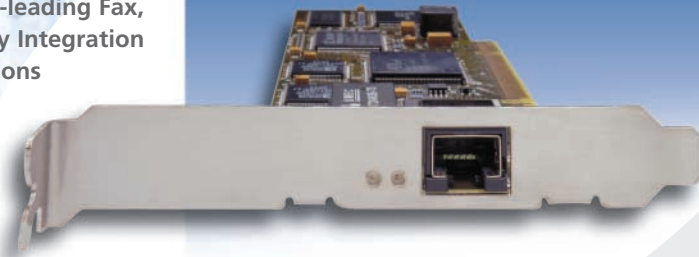# eicon
networks

product brochure ⟩ # Diva™ Server BRI

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 BRI answers all these needs perfectly. This active PCI adapter supports one ISDN Basic Rate Interface (BRI), enabling one server to support two concurrent communications with a mix of ISDN devices, V.90 analog modems, GSM mobile phones and fax machines, making it an excellent choice for small to medium-sized businesses. It is based on open systems architecture so that industry-leading Fax, 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 Diva Server BRI with new enhancements is easy as free software upgrades are available via the web.

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

The Ultimate Fax, Voice and Data Platform

Eicon Networks Certified
ISO 9001 2000

diva server

Key Benefits

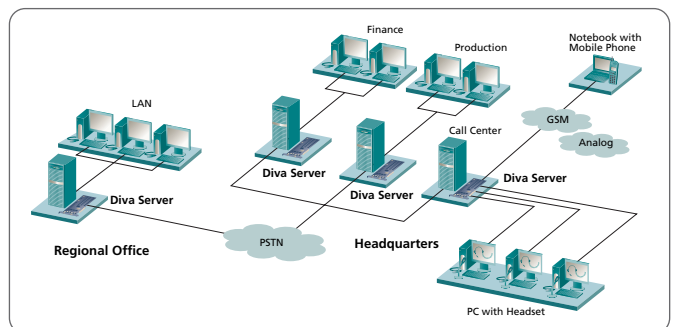|	
Supports Best-of-Breed Applications	The support of standardized software interfaces, such as CAPI 2.0 or TAPI enable the Diva Server BRI to be used with industry-leading software packages, allowing the network administrator to build a communication server that best suits their needs.
Free Software Development Kit	The Diva Server SDK makes it easy for software vendors to develop their own communication application for the Diva Server BRI.
Scaleable	Multiple Diva Server BRI adapters can be mixed and matched in one system in combination with any 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	The Diva Server BRI supports 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 BRI fully features any CTI server application. A full provision of supplementary services, such as call forwarding and explicit call transfer makes the Diva Server BRI an ideal solution for third party Interactive Voice Response (IVR) and Contact Center applications.
Voice over IP (VoIP)	The Diva Server BRI supports third party software giving complete support for VoIP gateways. High performance is guaranteed with support for echo cancellation (G.168) and voice compression in the DSP of the adapter.
Easy to Install	The ease of installation is guaranteed as the Diva Server BRI conforms 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 BRI is ready for use virtually anywhere in the world.

Technical Specifications

Hardware:	• Active ISDN adapter for Basic Rate Interface (BRI) • Plug and Play Interface • Bus type: PCI rev. 2.2 (3.3/ 5 V) • RJ45 Connector • 100 MHz, 131 MIPS CPU • 2 x 65 MHz, 65 MIPS DSP • 8 MB onboard SDRAM	• Form factor: Max size of a low profile adapter (as defined by PCI 2.2 specification) • Scaleable to 8 adapters per system • I/O Addresses and Interrupt are placed by the system • Power Down Management • Production quality: ISO 9002 • 5 year warranty
Power Consumption and Environmental	• *Power consumption:* 330mA@5 V typ. • *Operating temperature:* 10°C to 70°C • *Operating humidity:* 10% to 85% (non-condensing) • *Maximum tolerance in power supply variation:* -5% - +5%	• *Barometric operating pressure:* 86 to 106 kPascals • *Storage temperature:* 0°C to 70°C
Driver Software	• *Supported operating systems:* Microsoft: Windows 2003 Server, 2000, XP, Windows 2003 Server 64-Bit Edition, Windows XP 64-Bit Edition. Linux: Red Hat, SuSE and Debian distributions • *Application Interfaces:* Microsoft: WAN Miniport, COM Port, CAPI 2.0, TAPI, Diva Server API (SDK) Linux: TTY, CAPI 2.0, Diva Server API (SDK) • *D-Channel Protocols:* DSS1 (Euro-ISDN), NI-1 (North America National ISDN 1), 5ESS (North America), 1TR6 (Germany), INS Net 64 (Japan), VN3 (France), CT1 (Belgium), Q-Sig • *B-Channel Protocols:* HDLC, Synchronous PPP and MLPPP, X.75 (LAPB), Transparent, X.25, T.30, T.90NL, T.70NL, Rate adaptation (56 kbps), V.90, V.42, V.42bis, V.110, V.120, PIAFS • *Diagnostic Tools:* B-channel and D-channel trace program	

Fax and Voice features:	• DTMF transmission, detection and generation
	• 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
	• VoIP Gateway support
	  - Echo Cancellation (G.168)
	  - Voice compression (GSM codec)
	  - Real Time Protocol (RTP framing)
	  - Dynamic Anti-Jitter Buffer
	  - Comfort Noise Generation
	  - Voice Activity Detection
		• Fax group 3 support
		  - Up to 33.600 bps with each B-channel (send and receive)
		  - Fax compression MH, MR, MMR
		  - Error Correction Mode (ECM)
		  - Fax polling / Fax on demand
		  - Fax tone detection
		  - Standard, fine, super-fine and ultra-fine resolution
		• Support for fax class 1 and 2
		• Fax group 4 support
		• Remote Access (via HDLC, V.90, GSM, V.120, X.75)
		  - GSM support (V.110) up to 38.400 bps
		  - Communicates with analog modems (up to V.90). Up to 56.000 bps with each B-channel

Ordering Information

Product Name	Product Code
Diva Server BRI – 2M 2.0	306-162

National variants might be available. Please contact the Eicon Networks office in your region or look at www.eicon.com for further information.

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