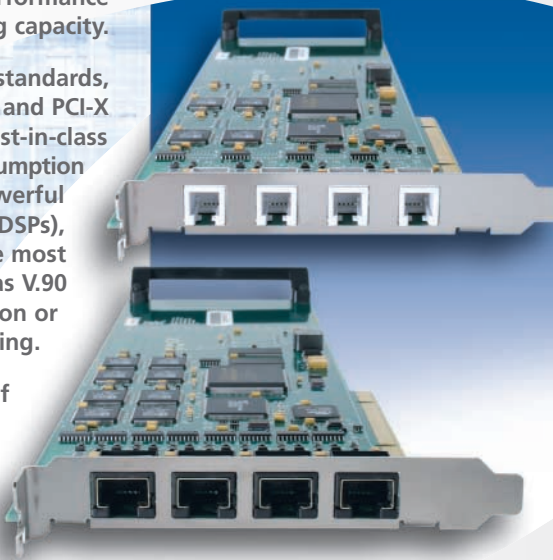**product brochure** ▷▷ # Diva™ Server Analog-4P/-8P

When it comes to connecting server based fax, voice and remote access applications to a public or private switching system, analog lines are in many cases the ubiquitous and most efficient means to do so. Diva Server Analog-4P/-8P provides a universal 4-port and 8-port communications platform that offers advanced telephony support as well as high-performance media processing capacity.

Based on the latest industry standards, Diva Server Analog-4P/-8P works in any PCI and PCI-X based server platform and demonstrates best-in-class system design, resulting in minimum power consumption and heat dissipation. Equipped with powerful on-board CPU and Digital Signal Processors (DSPs), Diva Server Analog-4P/-8P yields even for the most demanding media processing functions, such as V.90 modem, high-speed V.34 fax, echo cancellation or Voice over IP (VoIP) processing.

Being part of the Diva Server family of telephony adapters, Diva Server Analog-4P/-8P supports the very same set of programming interfaces - CAPI, TAPI or Diva Server API (SDK). Thus any application written to Diva Server can immediately benefit of the new Diva Server Analog-4P/-8P adapters. Design once – use on all!

The Multifunction Telephony Adapter enabling Remote Access, Fax, Voice and Speech Applications

Eicon Networks Certified
ISO ✓ 9001 2000

dIva server®

Key Benefits

Universal, Multifunction Platform
Thanks to its unique architecture, Diva Server Analog-4P/-8P is the perfect communications platform for the most demanding enterprise fax, voice and remote access applications. With support for pulse and tone dialing, single and dual stage, calls are being placed to and received from any PBX offering analog trunk interfaces.

Cutting-Edge Hardware Design
Utilizing the latest hardware technology Diva Server Analog-4P/-8P is fully compliant to the current PCI 2.2 specifications, it offers 3.3/5 V universal signaling and up to 66 MHz clock support and can be operated in any PCI and PCI-X based server, all at a very low power consumption.

High-Performance Media Processing
Powerful DSPs – one dedicated to each communication channel, ensure real-time processing of complex operations such as V.90 data modem, V.34 fax receiver and transmitter, voice compression, or echo cancellation. Offering these high-performance media processing functions on board, Diva Server Analog-4P-/8P enhances the overall system performance and lowers implementation cost.

Consistent Diva Server Programming Interface
Design once – use on all! This allows application developers and system integrators to minimize porting effort and reduces time to market. Whether using industry standard CAPI and TAPI, or Diva Server API via the Software Development Kit (SDK), an application once designed to work with any Diva Server adapter can seamlessly be used also with Diva Server Analog-4P/-8P.

State-of-the-Art Operating Systems Supported
Diva Server Analog-4P/-8P telephony adapters are ready to be used with all state-of-the-art operating systems, offering drivers for both Microsoft Windows and Linux. Even support of the latest 64-Bit edition of Windows Server 2003 and Window XP is readily available. Diva Server for Windows 2000/2003/XP is officially certified by the Windows Hardware Quality Labs (WHQL).

Superior Scalability and Flexibility
Up to eight Diva Server adapters - offering 2 to 240 channels - can be installed and operated concurrently in a single server. Any type of Diva Server adapter whether Analog, ISDN BRI, ISDN PRI, or E1/T1 can be mixed and matched.

Easy to Install and Configure
Ease of installation is guaranteed as all Diva Server Analog-4P/-8P adapters conform to Plug and Play standards, eliminating the need to manually configure your server. A GUI-based tool makes configuration of Diva Server Analog-4P/-8P simple and straight forward.

Technical Specifications

| Hardware	• 32-bit RISC CPU, 100 MHz, 131 MIPS
	• 16 MB onboard SDRAM Memory
	• Telephony Interface:
	  - 4 x RJ-10 connectors (Diva Server Analog-4P), RJ-10 to RJ-11 cables supplied
	  - 4 x RJ-45 connectors (Diva Server Analog-8P), RJ-45 to RJ-10 adapters and RJ-10 to RJ-11 cables supplied
	  - POTS trunk interface
	  - Loop start signaling
		• 4/8 x 32.76 MHz, 65 MIPS DSP
		• Host Interface:
		  - Full-size PCI form factor
		  - PCI 2.2 up to 66 MHz
		  - 3.3/5 V universal signaling
		  - PCI Plug and Play
		  - Scaleable to 8 adapters per system
		• Physical dimensions:
		  - 312.00 mm x 106.68 mm
		  - 352.17 mm x 126.37 mm (incl. bracket and retainer)

Environmental	• *Operating temperature:* 10°C to 50°C • *Operating humidity:* 10% to 90% (non-condensing)	• *Storage temperature:* 0°C to 70°C
Power	• *Power consumption:* 500 mA @+5 V typical	• *Max. tolerance in power supply variation:* -5% to +5%
Warranty	• 5 year warranty	
Certifications and Approvals	• *EMC:* FCC part 15, ICES-003, EN55022, EN55024 • *Telecom:* TIA 968-A (FCC part 68), IC CS03, TS 103 021 (TBR21)	• *Safety:* UL 60950, CSA 60950, EN 60950 • *CE Mark*
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) • *M-Adapter Feature (patent pending):* Combined Virtual Adapter, Internal Call Transfer, Explicit Call Transfer Emulation	

Features

Call control	• Call Progress Analysis: Busy tone detection, Ring back tone detection, Special Information Tone (SIT) detection, Fax/modem detection, Dial tone detection	• Pulse Dialing • Tone (DTMF/MF) Dialing • Hold/Retrieve (via Hook Flash) • Collection of DTMF Post Dial Digits	• Analog Caller Identification (via FSK and DTMF signaling)
Voice and speech	• G.711 coding (a-law, μ-law selectable) • Generic Tone detection and generation • Voice Activity Detection • Recording Automatic Gain Control (AGC) • G.168 echo cancellation, up to 32 ms tail length	• DTMF detection and generation • Pulse tone detection • Silence Detection • Pitch Control	• DTMF Clamping and Filtering • Full-duplex voice, "barge-in" • Human talker detection • Audio Tap
Voice over IP (VoIP)	• G.711 voice codec (64 kb/s, μ-law, A-law) • Adaptive jitter buffer • Real Time Protocol (RTP framing)	• G.726 voice codec (32 kb/s) • Voice activity detection (VAD) • G.168 echo cancellation, up to 32 ms tail length	• GSM voice codec (13 kb/s) • Comfort noise generation (CNG)
Switching and Conferencing	• On-board switching and Conferencing	• Automatic Gain control (AGC)	

Fax	• Support for Fax class 1 and 2
	• Support for Fax Group 3, T.30
	  - V.17, V.29, V.27ter, V.21, V.34 Modulation
	  - Up to 33.600 bps with each channel (send and receive)
	  - Fax compression MH, MR, MMR
	  - Standard, fine, super-fine and ultra-fine resolution
		- Fax polling/ Fax on demand
		- Page formats: ISO A4, B4, A3
		- Error Correction Mode (ECM)
		- Color Fax (JPEG-Format)	

Data modem	• V.21, V.22, V.22bis, Bell 103, Bell 212A, V.32, V.32bis, V.34, V.42, V.42bis, V.90, MNP4, MNP5 • Modem with extension: V.18, V.21, Bell 103, V.23, EDT, Baudot 45, Baudot 47, Baudot 50 incl. DTMF, V.42, V.42bis		

Ordering Information

Product Name	Product Code
Diva Server Analog-4P - International	306-232
Diva Server Analog-8P - International	306-233
Diva Server Analog-4P - North America	306-234
Diva Server Analog-8P - North America	306-235

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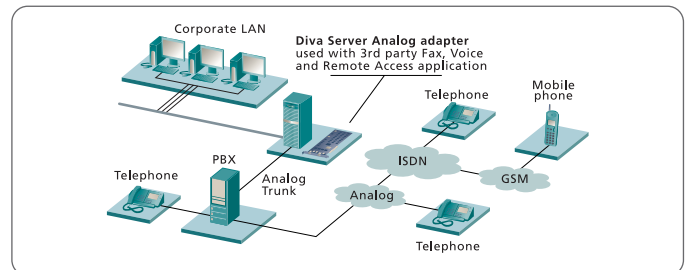
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