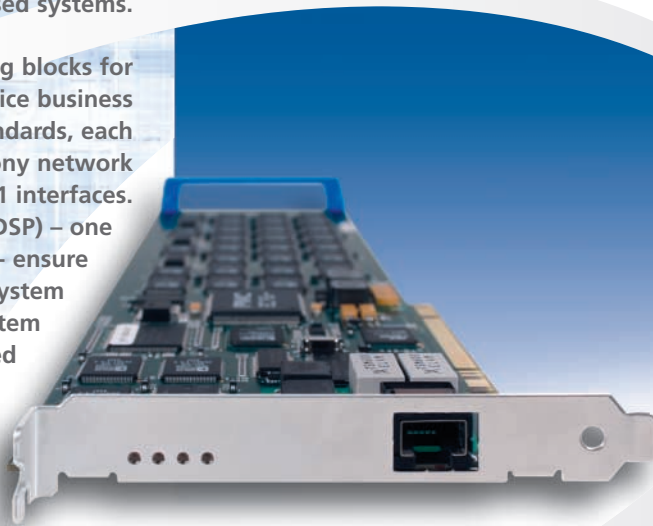


Diva™ Server V-PRI

Most peoples' interaction with PCs is text-based such as email and instant messaging, but human voice is still the most natural way of communicating. Advances in speech recognition technologies and the ubiquity of fixed and mobile telephones now opens up a new world of opportunities for voice based systems.

The Ultimate Voice, Speech and Conferencing Platform for PRI, E1 and T1

Diva Server V-PRI adapters are key building blocks for enabling these new breeds of voice business applications. Based on the latest PCI standards, each adapter provides connectivity to the telephony network via ISDN Primary Rate (PRI), E1 or T1 interfaces. Powerful Digital Signal Processors (DSP) – one dedicated to each communication channel - ensure real-time voice processing reducing system latency and improving overall system performance. An open and well documented application programming interface (API) combined with support for a broad range of operating systems facilitates development of leading-edge voice business applications.



Key Benefits

World-class voice processing

Diva Server V-PRI adapters provide a full set of voice processing functions including tone detection and generation, voice activity detection and echo cancellation. Handling voice either in PSTN standard coding or in compressed coding allows adaptation to any kind of telephony system. Onboard DSPs perform these complex operations in real-time enhancing overall system performance and lowering implementation cost.

Efficient integration with speech engines

Thanks to supporting full-duplex voice channels, callers can use an application-friendly feature known as "Barge-In". This allows a caller to interrupt speech prompts by speaking over them thereby controlling the pace of the conversation for a more pleasant user experience and better platform utilization. Speech recognition is helped by enhanced echo cancellation (up to 32 ms tail length) and voice activity detection which improve recognition and make better use of host platform resources.

Enhanced Switching and Conferencing support

Diva Server V-PRI adapters support line interconnection and conferencing of calls on a single board as well as across boards within a server. Automatic gain control (AGC) is provided to automatically adjust the signal level of incoming calls for recording at normal levels.

Robust Voice over IP (VoIP) technology

For integrating established voice, speech and conferencing applications with emerging IP-Telephony clients and IP-Phones, Diva Server V-PRI provides key enabling features such as voice packetization into real-time transport protocol (RTP), voice compression (G.726 and GSM), adaptive jitter buffer and comfort noise generation.

Supports Best-of-Breed Applications

The support of standardized software interfaces such as CAPI 2.0 or TAPI as well as an open API (Diva Server SDK) facilitate the development of voice business applications. Common applications include voice portals, speech enabled interactive voice response (IVR) systems and media servers.

Scaleable and flexible

Multiple Diva Server V-PRI adapters can be used in one system as well as in combination with any other Diva Server adapter to meet an organization's communication needs.

High Performance

On-board RISC CPU and DSPs remove performance bottlenecks as well as aiding developers by providing ample hardware resources.

Easy to Install

Diva Server V-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 as well as national CAS variants, the Diva Server V-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, global presence and an effective support organization.

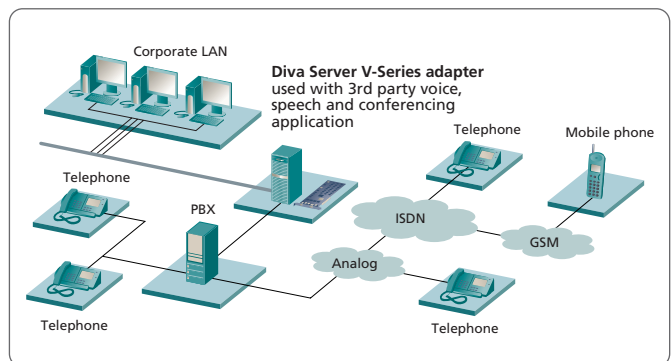
Technical Specifications

Hardware:	<ul style="list-style-type: none"> Active ISDN adapter for Primary Rate Interface (PRI), E1 and T1 interface RJ45 Connector 31 x 33 MHz, 60 MIPS DSP Full size PCI form factor I/O Addresses and Interrupt are placed by the system Production Quality: ISO 9002 	<ul style="list-style-type: none"> Plug and Play Interface Bus type: PCI rev. 2.2 (3.3V / 5V) 64-bit RISC CPU, 300 MHz 32 MB onboard SDRAM Scaleable to 4 adapters per system Power Down Management 5 year warranty
Power Consumption and Environmental	<ul style="list-style-type: none"> Power consumption: 0.92 A @+5 V typ., 2,6 A @+5V max. Operating temperature: 10°C to 50°C Storage temperature: 0°C to 70°C Operating humidity: 10% to 90% (non-condensing) Maximum tolerance in power supply variation: -5% to +5% 	
Driver Software	<ul style="list-style-type: none"> Supported operating systems: Windows Server 2003, Windows XP Professional, Windows 2000, Windows NT, Linux, NetWare 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 – 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) B-Channel Protocols: Transparent HDLC, Transparent Voice, X.75 (LAPB), X.75/V.42 bis, LAPD, T.90NL, T.70NL, V.120, X.25, X.31, PIAFS 1.0 / 2.0, SDLC Application Interfaces: WAN Miniport, COM Port, CAPI 2.0, TAPI, Linux: TTY, CAPI 2.0, Netware: CAPI 2.0 Diagnostic Tools: B-channel and D-channel trace program 	
Voice, Speech and Conferencing Features:	<ul style="list-style-type: none"> DTMF/MF transmission, detection and generation Voice Activity Detection Fax signal detection Full duplex voice 'Barge-In' G.168 echo cancellation, up to 32 ms tail length TAPI support Audio Tap ISDN Supplementary Services <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Special Information Tone (SIT) detection Silence Detection Automatic Gain Control Cross board switching On-board switching and conferencing via line interconnect (call tromboning) VoIP support <ul style="list-style-type: none"> G.711 voice codec (64 kb/s, μ-law, A-law) G.726 voice codec (32 kb/s) GSM voice codec (13 kb/s) G.168 echo cancellation, up to 32 ms tail length Adaptive jitter buffer Voice activity detection (VAD) Comfort noise generation (CNG) Real Time Protocol (RTP framing)

Ordering Information

Product Name	Product Code
Diva Server V-PRI/E1-30	306-214

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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