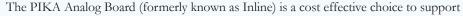


Datasheet: InLine - Low Density Analog Board with DSPs





a wide range of capabilities from the needs of basic voice applications to enhanced speech applications. 4 ports of fax are included with every board at no extra cost!

This low-density board with DSP based media processing applications and API is ideally suited for basic voice processing applications to enhanced speech applications. Examples of applications include:

- Small fax system
- Predictive dialer
- Operator console
- IVR/voice mail system

Key Features

- Single slot PCI card
- Software configurable as 4 loop start interfaces or 3 loop start interfaces plus 1 headset port
- DSP based echo cancellation and RTP packetization available (suitable for analog to IP gateway applications)
- Advanced DSP based media processing capabilities includevoice, tone, fax, and conferencing
- Windows and Linux development environments via PIKA's low and high level APIs
- · Compatible with other popular technologies such as Skype and Asterisk

Functional Chart

Functionality	Specifications
Analog line circuits	User configurable 4 loop start or 3 loop start +1 headset/handset
Host interface bus type	PCI
DSPs:	
On-board DSPs Chip Type Memory Clock Speed Instruction Speed	1 Motorola 56303 (see note) 128 K 100 MHz 100 MIPs
Supported Operating Systems (OS)	Windows 2000/XP/2003 Red Hat 7.3/Enterprise 4 SuSE 9.3 distributions of Linux

Note: DSP applications are independent programs that perform operations such as fax, VAD, echo cancellation, dual tone multi frequency (DTMF) detection, speech compression, conferencing, and more. The number of supported applications is limited only by the amount of available memory and real time.

Technical Specifications

PCI Interface	PCI 32 bit target/ initiator V2.2 compliant
	33 MHZ bus speed
Network Interface	RJ14 connectors
	RJ22 headset/ handset connector
Headset Interface	RJ22 headset/ handset connector; does not require external power supply
Loop Start Trunk Interfaces (CO Interface Circuit)	Headset/ handset connection configurable via software set up
	On hook audio reception
	Ground button (Euro version only)
	Gain pad
DC resistance	North American: 360-140 ohms over 15-120 mA typical
	Euro version: 470-154 ohms over 14-130 mA typical
Loop Range	0-2000 ohms
	AC impedance: 600 ohms (North America) or complex (Euro version)
Supervision	loop current drop, battery reversal, ringing
Signaling	Off-hook, flash, DTMF
Loop current range	North America: 15-120 mA
	Euro version: 14-130 mA
Compliance and Capabilities	FCC part 15 and FCC Part 68, Industry Canada CS-03, CSA C22.2 no 950 NRTL/C
	TBR21
	EU 55022:1998 Class B, EU 55024:1998, EU 60950:1992
	2002/ 95/ EC RoHS 6
DSP	Motorola 56303 DSP
	Software reset on per DSP basis
MTBF	4L/ 3L plus headset
	North America: 47 years
	Euro version: 45 years
Power Requirements	355 mA
Environmental Requirements	Operating Tempature: 0 °C to +60 °C
	Storage Tempature: -20 °C to +85 °C
	Humidity: 5 to 95%, non-condensing
Media Capabilities	Play and Record
	DTMF, tone, speech detection
	DTMF, tone generation
	Fax
	RTP, IP/SIP
	Integration with Asterisk and Skype technologies

About PIKA Technologies Inc.

For over 2 decades, PIKA Technologies has been providing developers with the tools they need to build advanced voice and fax applications like IP PBX, fax broadcast and self-service IVR. As the technology landscape has changed, so too has PIKA, building out its product offering so its customers can choose the right tool set for their applications. Whether building applications using DSP board-based media processing, host-based or VoIP only solutions, whether your application requires telephony boards or appliances, application developers of all kinds turn to PIKA for their development tools.