

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 include PIKA's AllOnBoard technology (voice, tone, fax, conferencing)
- Windows and Linux development environments via PIKA's low and high level APIs
- Compatible with other popular technologies through PIKA Connect family

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	1
Chip Type	Motorola 56303 (see note)
Memory	128 K
Clock Speed	100 MHz
Instruction Speed	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. DSP applications are a key ingredient of the innovative AllOnBoard architecture. 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

Telephony Interface:

1. Headset Interface:

RJ22 headset/handset connector; does not require external power supply

2. Loop Start Trunk Interfaces (CO Interface Circuit):

Headset/handset connection configurable via software during set up

On-hook audio reception

Ground button (Euro version only)

Gain pad

DC resistance:

North America : 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 Temperature: 0C to +60C

Storage Temperature: -20C to +85C 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, Envoy, Skype technologies

About PIKA Technologies Inc.

PIKA Technologies' reliable media processing building blocks connect computer systems to TDM and IP networks. Brand name companies design groundbreaking IVR, call center, custom PC/IP PBX, fax and logging solutions using PIKA Technologies' components.

With two decades of experience in this industry, PIKA was one of the first media processing vendors to move voice processing onto the host, developing reliable algorithms for voice applications in shared environments. PIKA offers a single SDK across its entire product portfolio, and has earned a reputation for market-leading customer and technical support. Headquartered in Ottawa, ON, Canada, PIKA has ranked in The Branham300, an authoritative ranking of successful Canadian high tech firms, for four consecutive years.



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