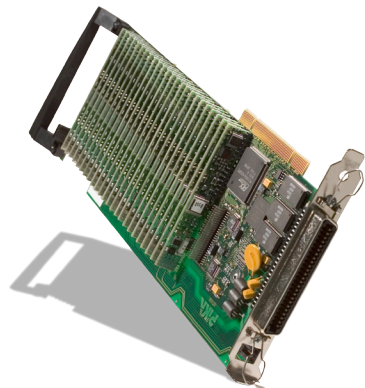


Key Features



- Single slot PCI card
- Capable of providing combinations of loop start, station and passive/high impedance logging of analog line circuits
- Available in densities ranging from 4-24 analog line circuits
- 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)
- H.100 compatible, full on board switching available
- 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	4 to 24
Computer Telephony (CT) Bus Type	H.100
Bus Data Rate (H.100)	2, 4, 8 MHz
CT Bus Switch Connections	up to 512 simultaneous half duplex connections can be made between any of the 4096 CT bus timeslots and any of the local timeslots
PC Host Interface Type	PCI (universal signalling)
Maximum V-Engines	1 (Motorola 56303 DSP based)
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 dual tone multi frequency (DTMF) detection, speech compression, conferencing, and speech recognition or tone detection. 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. V-Engine is an add-on expansion card with up to 6 extra DSPs that attach to a high-density Analog Board. V-Engines are used to expand the available signal-processing horsepower for use in DSP applications such as Conferencing, Audio playback/record and Echo Cancellation.

Technical Specifications

PCI Interface:

PCI 32 bit target/initiator V2.2 compliant
33 MHz bus speed

Network Interface: 50 pin Amphenol; RJ21 (optional 12 x RJ14 breakout)

Telephony Interfaces:

1. Loop Start Interface (standard mode or passive logging mode)

DC Resistance:

North American 330 ohms (@ 20 mA) to 127 ohms (@ 105 mA)
European 420 ohms (@ 14 mA) to 89 ohms (@ 150 mA)

DC Loop Current:

North American 20 mA to 105 mA (operating range)
European 14 mA to 150 mA (operating range)

AC Impedance:

North American 600 ohms (off hook), >350 K ohms (on hook)
European Complex as per TBR21 spec (off hook), >350 K ohms (on hook)

Supervision:

North American Ringing voltage (15.3 - 68 Hz, ≥ 32 VRMS), loop current disconnect
European Ringing voltage (16 - 60 Hz, ≥ 25 VRMS), loop current disconnect

Signaling:

Off hook, Flash, DTMF
On Hook Audio Detect:
Caller ID, DTMF (KT23), Audio Logging

DC Triggering:

3V, 18V, or 33V programmable threshold

2. Station Interface (SLIC):

Current Limiting: Constant at 30 mA

AC Impedance: 600 ohms

Loop Range: 0-750 ohms @ -24VDC

Supervision: Off hook, Flash, Ring Trip, DTMF

Signaling: Ringing (externally sourced), Cadence and Power Management Under Software Control

Maximum Ringing Load: 2 Ren/line

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

DSPs:

Motorola 56303
Software reset on per DSP basis

MTBF:

Daytona Baseboard: 68 years
Daytona Loop Start Module: 280 years
Daytona Station Module: 244 years
V-Engine: 144 years

Power Requirements

12LC	770mA max @ +5 Volts
24LC	960mA max @ +5 Volts
12P	1060mA max @ +5 Volts
24P	1540mA max @ +5 Volts
4LC/8P	960mA max @ +5 Volts
8LC/16P	1350mA max @ +5 Volts
MM Series V-engine	890mA max @ +5 Volts

Note: Typical values.

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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