



Analog Trunk FXO/PCIe Boards HMP



PIKA Analog Trunk/FXO Boards with Host Based Media Processing (HMP) provide up to 16 analog trunk ports. Highly flexible, they are software-configurable for use in multiple countries.

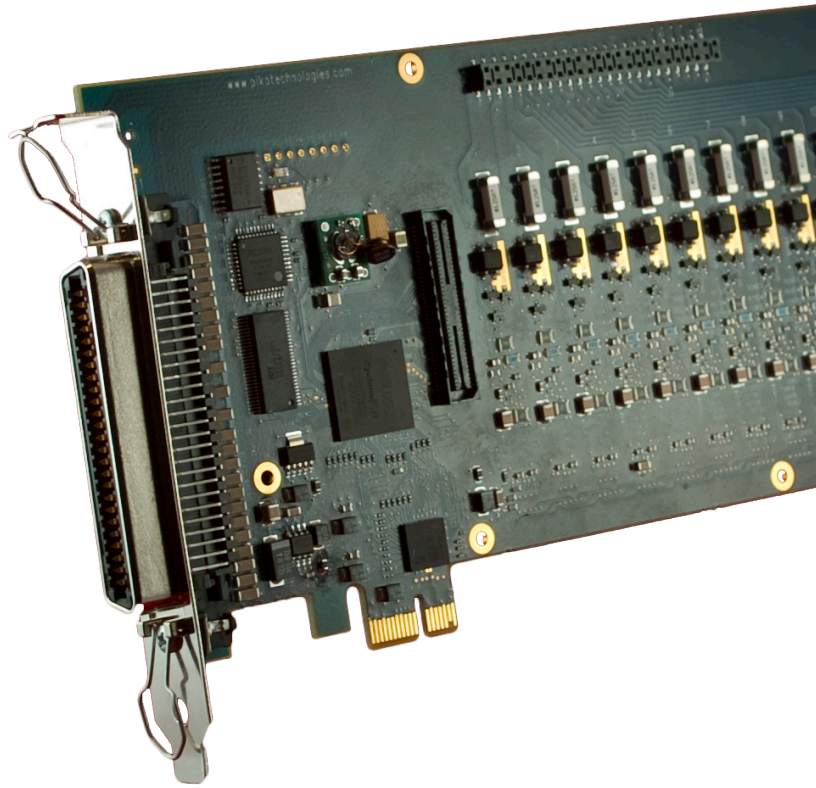
This 9.5 inch board features the PCI Express format, and will easily integrate into a PC chassis. Media processing is performed using PIKA's host-based (HMP-X) software resources.

These boards are ideal for traditional telephony applications as well as for fax and VoIP applications. The boards enable voice and fax services by way of connectivity to TDM and IP networks (via HMP-X).

PIKA Analog Trunk/FXO Boards, and PIKA MonteCarlo SDK with Host Based media processing (HMP-X) represent a complete and scalable set of reliable building blocks for the development of feature-rich communications solutions.

Key Features

- Single slot PCIe card
- Only 9.5 inches long
- Available in densities ranging from 4 - 16 analog line circuits (software license enabled) in 4-port increments
- Superior host-based echo cancellation and RTP packetization available (suitable for analog to IP gateway applications)
- Advanced host-based media processing capabilities including voice, tone and conferencing
- Low latency host-based switching between PIKA's boards
- Windows and Linux development environments via PIKA's low and high level APIs



Technical Specifications

PCIe Bus Interface		Based on PCIe revision 1.0a specifications
PCIe Bus Speed		2.5 GHz, single lane link
Memory Address Allocation		Automatically assigned by Plug and Play cycle
Interrupts Allocation		Automatically assigned by Plug and Play cycle
Slot requirements		PCIe 9.5" slot
Dimensions (Metric)		241 mm L x 98 mm H
Dimensions (Imperial)		9.5" L x 3.875" H
Power consumption from 3.3V rail		2 W max
Power consumption from LS Lines		North America 1.4 W European Union 2.0 W
Environmental Requirements		Operating Temperature: 0 °C to +60 °C Storage Temperature: -20 °C to +85 °C Humidity, non-condensing: 5% to 95%
Mean Time Between Failure (MTBF)		31 years
Telephony Interfaces		4 - 16 FXO trunk interface ports
AC Impedance (in audio band)		Off-hook: 600 ohms On-hook metallic (tip to ring): >300 k ohms Return Loss: >26.8 dB
DC Current - Loop Current Range		13 - 110 mA
DC Resistance	Longitudinal (tip to ground, ring to ground)	>9.8 M ohms
	On-Hook Metallic (Tip to Ring)	>6.5 M ohms
	Off-Hook Metallic (Tip to Ring)	310 ohms @ 20mA 117 ohms @ 100 mA
Ring Detection		14 Vms @ 16 Hz 14 Vms @ 20 Hz 12 Vms @ 68 Hz
Ringer Impedance (20 Hz)		> 26 K ohm
Ringer Equivalence Number (REN)		0.1B
Gain Tolerance (Linearity)	On-Hook in (2 to 4 wire) NA	0.0 to 0.8 dB (300-3400 Hz)
	Off-Hook In (2 to 4 wire) NA	-1.5 to -0.4 dB (300 -3400 Hz)
	Off-Hook Out (4 to 2 wire)	-4.8 to -0.7 dB (300-3400 Hz)
Gain Range	Fixed - On-Hook H/W Gain In (2 to 4 wire)	-1.6 dB
	Fixed - Off -Hook H/W Gain In (2 to 4 wire)	-0.75dB
	Fixed - Off-Hook H/W Gain Out (4 to 2 wire)	+0.24 dB
	On-Hook Signal overload level @0 dB gain In (2 to 4 wire)	+4.77 dBm
	Off-Hook Signal overload level @0 dB gain In (2 to 4 wire)	+3.92 dBm

Trans-hybrid loss (THL)	>27 dB (300-3400)
On-Hook Common Mode Gain	-52.9 dBm0 avg
Signal to Noise Ratio (15 dBm, 1 KHz reference)	> 38 dB
On-Hook Inter Hybrid (Interface) Crosstalk	No measureable crosstalk
Off-Hook Inter Hybrid (Interface) Crosstalk	No measureable crosstalk
Idle Channel Noise	6 dBrc
Transverse Balance	> 57 dB
Supervision	Ring Detection, Loop Disconnect, Reversal Detection, Loop Voltage, Loop Current
Signalling	Off Hook, Flash, DTMF, Pulse Dial
Onhook Audio Detect	Caller ID, DTMF, Audio Logging

Note: All dimensions are approximate and do not include board faceplate and RJ-21 connector. Proper system cooling, which will vary based on system design, is required to maintain an acceptable operating temperature.

RoHS

All PIKA boards are RoHS compliant.

Warranty

PIKA provides a 1-year warranty on all boards.

About PIKA Technologies

Since 1987, PIKA Technologies has pioneered technology and products that enable global telephony, fax and communications solutions. PIKA's offerings include telephony appliances, board-level TDM products, mobile PBX, media gateways, end user applications, smart phone apps and custom telecom development services. Known for exceptional voice quality, reliability and renowned customer service, PIKA enables developers, system integrators and businesses worldwide to take full advantage of advanced communication solutions. This includes products that support innovation in legacy and emerging telephony models, as well as solutions that bridge the path from TDM to VoIP and services in the cloud.

With customers in more than 35 countries and numerous product and technology awards to its name

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