

PEX-H3178 PCI Express Interface Modules Analog I/O

Base Specifications

Model type	PEX-H3178
Bus requirements	PCI Express™ Base Specification Rev. 1.0a x1
Number of slots	1 slot
Number of I/O ports	32 ports + 4 ports
Data transfer method	I/O transfer (I/O mapped I/O)
Dimensions	165.00 (D) x 106.65 (H) [mm]
Weight	125g
Power consumption	+3.3 Vdc (+/-9%): 0.3A (typ.) +12 Vdc (+/-8%): 0.4A (typ.)
Environmental conditions	Operating temperature: 0 deg C to 50 deg C Relative humidity: 20% to 90% (non-condensing)
Connectors	CN1: 50-pin half-pitch male connector
On-board connector	PCR-E50LMDA+ (Honda Tsusin Kogyo Co., Ltd) or equivalent
Acceptable cable connector	CN1: PCR-E50FS+ (connector) plus PCS-E50LKPC (cover) (Honda Tsushin Kogyo Co., Ltd.) or equivalent
Isolation	Individual channel isolation Optically isolated analog partition
Interrupt sources	3 sources (end of AD conversion, external trigger, and timer)
MTBF	88749 hrs.
External Signals	EXINT IN (External interrupt input) x 1 EXTRG IN (External trigger input) x 1 IN1, IN2 (Digital Input) x 2 OUT1, OUT2 (Digital output) x 2

Analog Input Specifications

Model type	PEX-H3178
Number of channels	Single-ended input: 4 (simultaneous)
Input mode	One AD converter/channel (Multi-ADC)
Input range	Bipolar: +/-5 V, +/-10 V Unipolar: 0 V to +5 V, 0 V to +10 V, 0 mA to +20 mA
Input impedance	Voltage: 2 GΩ (typ.) Current: 250Ω (typ.)
Input protection voltage	+/-35 V (power on) +/-20 V (power off)
Resolution	16 bits
AD converter	ADS7809U or equivalent
Relative accuracy	Voltage: +/-4 LSB (max.) (25 °C) Current: +/-0.15% (max.) (25 °C)
Error	Voltage: +/-0.15% (max.) (0 °C to 50 °C) Current: +/-0.30% (max.) (0 °C to 50 °C)
Conversion time*	20 μs (simultaneous sampling of 4 channels)

Note: * Actual throughput depends on the number of samples and other various factors.



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All product specifications are subject to change without prior notice.

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