

PCI Express Interface Modules Digital I/O

Base Specifications

Model type	PEX-H291388	PEX-H292388	PEX-H293388
Bus requirements	PCI Express™ Base Specification Rev. 1.0a x1		
Number of slots	1 slot		
Memory size	8 KB + 32 bytes		
Data transfer method	I/O transfer (memory mapped I/O)		
Dimensions	165.00 (D) x 106.65 (H) [mm]		
Weight	115g		
Power consumption	+3.3 Vdc (+/-0.3 V):		
All I/O and control signals inactive	0.4 A (typ.)		
All I/O and control signals active	0.5 A (typ.)		
Environmental conditions	Operating temperature: 0 deg C to 50 deg C Relative humidity: 20% to 90% (non-condensing)		
Connectors	CN1: 96-pin half-pitch male connector		
On-board connector	PCR-E96LMDC-ST+ (Honda Tsusin Kogyo Co., Ltd) or equivalent		
Acceptable cable connector	PCR-E96DSFA+ (Honda Tsusin Kogyo Co., Ltd) or equivalent		
Isolation	No-isolation		
Interrupt sources	6 sources		
MTBF	330343 hrs.	335577 hrs.	319578 hrs.
Signal Transmission	Approx. 1.5 meters (varies on wiring conditions)		
External I/O Signals	PULS.OUT1, PULS.OUT2 (Digital output) x 2 IR.IN1, IR.IN2 (Digital Input) x 2 RSTOUT (reset signal output) x 1 RSTIN (external reset input signal) x 1		

Digital Input Specifications

Model type	PEX-H291388	PEX-H292388	PEX-H293388
Input signals	IN1 through IN64 (bi-direction)		
Input configurations	Schmitt trigger TTL input	Schmitt trigger LVTTTL input (with 4.7kΩ pull-up resistor)	CMOS-gated high-voltage input (with 4.7kΩ pull-up resistor)
Input logic	1 ← Low (on, closed) 0 ← High (off, open)		
Input signal voltage range	+5 Vdc	+3.3 Vdc to +5 Vdc	+5 Vdc to +48 Vdc
Low-level input current	I _{IL} = -1.2mA (max.)	I _{IL} = -0.8mA (max.)	I _{IL} = -1.1mA (max.)
High-level input current	I _{IH} = +40μA (max.)		
Low-level input voltage	V _{IL} = 0.8V (max.)		V _{IL} = +0.7 V (max.)
High-level input voltage	V _{IH} = 2.0V (max.)		V _{IH} = +3.1 V (min.)
Input response time	TRON: 0.1μs (typ.) TROFF: 0.1μs (typ.)		
Input control signals	STB1: Input-Data Latch Signal (in) x 1 ACK1: Input-Data Acknowledgement Signal (out) x 1		

PCI Express Interface Modules Digital I/O

Digital Output Specifications

Model type	PEX-H291388	PEX-H292388	PEX-H293388
Output signals	OUT1 through OUT64 (bi-direction)		
Output configurations	TTL open-collector output (with 4.7 k Ω pull-up resistor)	LVTTL open-collector output (with 4.7 k Ω pull-up resistor)	TTL open-collector output (with 4.7 k Ω pull-up resistor)
Output logic	1 \rightarrow Low (on, closed) 0 \rightarrow High (off, open) (default value)		
Output signal voltage range	0 Vdc to +5 Vdc	0 Vdc to +3.3 Vdc	+5 Vdc to +48 Vdc
Output current	IOL = +40 mA (max.)		
Low-level output voltage	VOL = +0.5 V (max.) (IOL = +12 mA)		
Output response time	TRON: 0.5 μ s (typ.) TROFF: 1.0 μ s (typ.)		
Output control signals	STB2: Output-Data Active Notification Signal (out) x 1 ACK2: Output-Data Acknowledgement Signal (in) x 1		



Interface Amata Solutions, Inc.
E-mail: sales@amitasol.com
Website: <http://www.interface-amita.com>

All product specifications are subject to change without prior notice.

©2016 Interface Corporation