

PCI Express Interface Modules Digital I/O

Base Specifications

Model type	PEX-H224020	PEX-H284011	PEX-H234002
Bus requirements	PCI Express™ Base Specification Rev. 1.0a x1		
Number of slots	1 slot		
Memory size	8 KB + 32 bytes x2		
Data transfer method	I/O transfer (memory mapped I/O)		
Dimensions	165.00 (D) x 106.65 (H) [mm]		
Weight	120g	120g	125g
Power consumption	+3.3 Vdc (+/-0.3 V):		
All I/O and control signals inactive	0.35 A (typ.)	0.35 A (typ.)	0.35 A (typ.)
All I/O and control signals active	1.6 A (typ.)	1.6 A (typ.)	1.6 A (typ.)
Environmental conditions	Operating temperature: 0 deg C to 50 deg C Relative humidity: 20% to 90% (non-condensing)		
Connectors	CNA: 100-pin 0.8 mm-pitch female connector CNB: 100-pin 0.8 mm-pitch female connector		
On-board connector	HDRA-E100W1LFDT1EC-SL+ (Honda Tsushin Kogyo Co., Ltd.) or equivalent		
Acceptable cable connector	HDRA-E100MA1+ (Honda Tsushin Kogyo Co., Ltd.) or equivalent		
Isolation	Isolation (On-Board Isolated Power Supply)		
Interrupt sources	12 sources	8 sources	4 sources
External I/O Signals	RSTIN (external reset input signal) x 2		

Digital Input Specifications

Model type	PEX-H224020	PEX-H284011	PEX-H234002
Input signals	IN1 to IN128	IN1 to IN64	-
Input configurations	Photo-isolated high-voltage input (source type)		-
Input logic	1 ← Low (on, closed) 0 ← High (off, open)		-
Maximum voltage rating	+30 Vdc		-
Input voltage	+5 Vdc to +24 Vdc		-
Input voltage range	0 Vdc to +24 Vdc		-
Input impedance (protection function)	680 Ω (Reverse bias protection diode and leakage current reduction shunt resistor: 1.5 kΩ)		-
Low-level input current	I _{IL} = -4.7 mA (typ.)		-
Threshold current (shut-off guaranteed)	-0.5 mA (max.)		-
Threshold current	-0.6 mA to -1.4 mA (voltage level conversion: +1.8 Vdc to +3.3 Vdc)		-
Input response time	TRON: 8 μs (typ.) TROFF: 60 μs (typ.)		-

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Digital Output Specifications

Model type	PEX-H224020	PEX-H284011	PEX-H234002
Output signals	-	OUT1 to OUT64	OUT1 to OUT128
Output configurations	-	High-current drive open-collector output (sink type)	
Output logic	-	1 → Low (on, closed) 0 → High (off, open) (default value)	
Maximum voltage rating	-	+30 Vdc	
Recommended voltage range	-	+5 Vdc to +24 Vdc	
Maximum output current per channel	-	IOL = +100 mA	
Low-level output voltage	-	VOL = +0.2 V (max.), VOL = +0.1 V (typ.) (IOL = +100 mA)	
Leakage current	-	IOH = +100μA (max.)	
Output response time	-	TRON: 10 μs (typ.) (with the maximum load) TROFF: 150μs (typ.) (with the maximum load) (Low-to-high transition time depends on the load impedance.)	



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All product specifications are subject to change without prior notice.

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