



PE2ISCO

Silicom's HW Accelerator Crypto Compression PCI Express Server Adapter / SKU11 / SKU1 / SKU2 / SKU3 Intel® Based

Product Description

Silicom's HW Accelerator Crypto Compression PCI Express Server adapters are based on-chip HW accelerator Intel® communication controller.

Silicom's PE2ISCO PCI Express Server adapters support Intel QuickAssist Technology for Hardware Crypto and Compression accelerator engines. The Silicom's PE2ISCO PCI Express Server adapter is optimized to Intel Architecture (IA) support.

The Silicom's PE2ISCO PCI Express Server adapters are based on Intel production process that provides the best industry performance, power and cost.

Key Features

- Intel® QuickAssist Accelerator
- Symmetric Cryptographic Functions
- Cipher Operations
- Hash/Authenticate Operation
- Cipher-Hash Combined Operation
- Key Derivation Operation
- Random Number Generation
- Compression/Decompression
- Deflate (Lempel-Ziv 77-Stac)
- Support for 32 SR-IOV Virtual Functions
- Support PCI Express Base Specification 2.0 (5 GTs)
- High performance, reliability, and low power use in Intel DH8926CL (sku11)

Performance Features:

Performance	Sku11
Intel® Quick Assist Technology Capability	25Gbps
IPSec	none
SSL	none
Compression	20Gbps
Kasumi/ Snow3G	none
RSA Decrypt 1k-bit	none
RSA Decrypt 2k-bit	none

Technical Specifications

Performance:				
Intel® chip	Sku11	Sku1	Sku2	Sku3
Intel® Quick Assist Technology Capability	25Gbps	*25Gbps	50Gbps*	*50Gbps
IPSec	none	25Gbps	43Gbps*	*43Gbps
SSL	none	25Gbps	49Gbps*	*50Gbps
Compression	20Gbps	12Gbps	20G	*24G
Kasumi/ Snow3G	none	Up to 30Gbps	Up to 30Gbps	* Up to 30Gbps

RSA Decrypt 1k-bit	none	100K (ops/sec)	165K (ops/sec)	190K (ops/sec)
RSA Decrypt 2k-bit	none	20K (ops/sec)	35K (ops/sec)	40K (ops/sec)

*PCI Ex8/ Gen2 will limit the IO performance to 27 Gbps

Operating Systems Support	
Operating system support:	Linux
PE3iSCO2/3: General Technical Specifications	
Interface Standard:	PCI-Express Base Specification Revision 2.0 (5 GTs)
Board Size:	Low profile short add-in card: 167.64mm X 68.91mm (6.60"X 2.713")
PCI Express Card Type:	x8 Lane
PCI Express Voltage:	+12V +- 8%
PCI Connector:	Gold Finger: X8
Controller:	Sku11: Intel DH8926CL Sku1: Intel DH8925CL Sku2: Intel DH8950CL Sku3: Intel DH8955CL
Holder:	Metal Bracket: Full Height and Low Height
Operating Humidity:	0%–90%, non-condensing
Operating Temperature:	0°C – 45°C (32°F – 113°F) Air flow requirement for this adapter is 200 LFM
Storage:	-40°C–65°C (-40°F–149°F)
EMC Certifications:	FCC Part 15, Subpart B Class A Conducted Emissions Radiated Emissions CE EN 55022: 1998 Class A Amendments A1: 2000; A2: 2003 Conducted Emissions Radiated Emissions CE EN 55024: 1998 Amendments A1: 2000; A2: 2003 Immunity for ITE Amendment A1: 2001

	CE EN 61000-3-2 2000, Class A Harmonic Current Emissions CE EN 61000 3-3 1995, Amendment A1: 2001 Voltage Fluctuations and Flicker CE IEC 6100-4-2: 1995 ESD Air Discharge 8kV. Contact Discharge 4kV. CE IEC 6100-4-3:1995 Radiated Immunity (80-1000Mhz), 3V/m 80% A.M. by 1kHz CE IEC 6100-4-4:1995 EFT/B: Immunity to electrical fast transients 1kV Power Leads, 0.5Kv Signals Leads CE IEC 6100-4-5:1995 Immunity to conductive surges COM Mode; 2kV, Dif. Mode 1kV CE IEC 6100-4-6:1996 Conducted immunity (0.15-80 MHz) 3VRMS 80% A.M. By 1kHz CE IEC 6100-4-11:1994 Voltage Dips and Short Interruptions V reduc >95%, 30% >95% Duration 0.5per, 25per, 250per
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Order Information

P/N	Description	Notes
PE2ISCO11	HW Accelerator sku11 Compression PCI E Server Adapter	X8, Based on Intel SKU11 DH8926CL , Low-Profile, RoHS compliant
PE2ISCO1	HW Accelerator sku1 Crypto Compression PCI E Server Adapter	X8, Based on Intel SKU1 DH8925CL , Low-Profile, RoHS compliant
PE2ISCO2	HW Accelerator sku2 Crypto Compression PCI E Server Adapter	X8, Based on Intel SKU2 DH8950CL , Low-Profile, RoHS compliant
PE2ISCO3	HW Accelerator sku3 Crypto Compression PCI E Server Adapter	X8, Based on Intel SKU3 DH8955CL , Low-Profile, RoHS compliant

Model P/N -LP : Assemble low profile metal bracket

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