



PE3ISCO

Silicom's HW Accelerator Crypto Compression PCI E G3 Server Adapter 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 HW Accelerator Crypto Compression PCI Express Server adapters support Intel QuickAssit Technology for Hardware Crypto and Compression accelerator engines.

The Silicom's HW Accelerator Crypto Compression PCI Express Server adapters are optimized to Intel Architecture (IA) support. The Silicom's HW Accelerator Crypto Compression 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
- Public Key Functions
 - RSA Operation
 - Diffie-Helman Operation
 - Digital Signature Standard Operation
 - Key Derivation Operation
 - Elliptic Curve Cryptography: ECDSA* and ECDH*
 - Random Number Generation and Prime Number Testing
- Compression/Decompression
 - Deflate (Lempel-Ziv 77-Stac)

- Support for 32 SR-IOV Virtual functions

Common Key features:

- PCI Express X8 lanes
- Support PCI Express Base Specification 3.0 (8 GTs)
- High performance, reliability, and low power use in Intel DH8925CL (SKU1) / DH8950CL (SKU2) / DH8955CL (SKU3) PCH controller

Technical Specifications

SKU1/ SKU2 / SKU3 performance per a single controller:			
Intel® chip	Sku1	Sku2	Sku3
Intel@ Quick Assist Technolgoey Capability	25Gbps	50Gbps	50Gbps
IPSec	25Gbps	43Gbps	43Gbps
SSL	25Gbps	50Gbps	50Gbps
Compression	12Gbps	20G	23G
Kasumi/ Snow3G	Up to 30Gbps	30Gbps	30Gbps
RSA Decrypt 1k-bit	100K (ops/sec)	165K (ops/sec)	190K (ops/sec)
RSA Decrypt 2k-bit	20K (ops/sec)	35K (ops/sec)	40K (ops/sec)
Operating Systems Support			
Operating system support:	Linux		
PE3iSCO: General Technical Specifications			
Interface Standard:	PCI-Express Base Specification Revision 3.0 (8 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:	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 47CFR part 15: 2013, subpart B, Class B ICES-003: 2012 Issue 5, Class B VCCI V-3/2014.04, Class B AS/NZS CISPR 22: 2009 + A1(10), Class B EN 55022: 2010, Class B EN 55024: 2010 EN 61000-3-2: 2006+A1(09)+A2(09) EN 61000-3-3: 2008 EN 61000-4-2: 2009 EN 61000-4-3: 2006+A1(08)+A2(10) EN 61000-4-4: 2004+A1(10) EN 61000-4-5: 2006 EN 61000-4-6: 2009 EN 61000-4-11: 2004
MTBF:	147 years *According to Telcordia SR-332 Issue 2 Environmental condition – GB (Ground, Fixed, Controlled). Ambient temperature – 40°C.

Order Information

P/N	Description	Notes
PE3ISCO1	HW Accelerator sku1 Crypto Compression PCI E G3 ServerAdapter	Gen 3.0 X8, Based on Intel® SKU1, DH8925CL Low-Profile, RoHS compliant
PE3ISCO2	HW Accelerator sku2 Crypto Compression PCI E G3 ServerAdapter	Gen 3.0 X8, Based on Intel® SKU2, DH8950CL Low-Profile, RoHS compliant
PE3ISCO3	HW Accelerator sku3 Crypto Compression PCI E G3 ServerAdapter	Gen 3.0 X8, Based on Intel® SKU3, DH8955CL Low-Profile, RoHS compliant

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

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