Intel® Server Board S2400LP Family
Intel® Server System H2000LP Family
Intel® Compute Module HNS2400LP Family
Intel® Server Chassis H2000 Family
Spares/Accessories List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server Board S2400LP and the appropriate 2U Intel Rack Mount Server Systems



Revision 1.1

March 2012

Enterprise Platforms and Services Marketing

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March'12 - Rev 1.1 - Remove EPSD InfiniBand Gen3 I/O modules

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Table of Contents:

1.	SYS	STEM PRODUCT ORDER CODES	4
	1.1	PRODUCT DESCRIPTIONS – OVERVIEW	
	1.2	SUMMARY CHART	4
	1.3	AVAILABLE PRODUCTION BOARD ORDER CODES	
	1.4	AVAILABLE PRODUCTION SYSTEM ORDER CODES	7
	1.5	AVAILABLE PRODUCTION CHASSIS ORDER CODES	9
	1.6	AVAILABLE PRODUCTION COMPUTE MODULE ORDER CODES	10
2.	SP	ARES AND ACCESSORIES ORDER CODES	12
		ARES AND ACCESSORIES ORDER CODES	
	2.1	GENERAL SPARES AND ACCESSORIES	12
		GENERAL SPARES AND ACCESSORIES	12
	2.1	GENERAL SPARES AND ACCESSORIES	12 16
	2.1 2.2	GENERAL SPARES AND ACCESSORIES	12 16
	2.1 2.2 2.3	GENERAL SPARES AND ACCESSORIES	12 16 16

1. System Product Order Codes

1.1 Product Descriptions – Overview

Product based on the Intel® Server Board S2400LP will be offered in variety of options to provide the flexibility and facility for customer.

BIK will be offered as integrated systems at launch, including drive, InfiniBand and power supplies configuration.

Board will be offered as 10-pack at launch.

Chassis will be offered as KDK at launch. It will include power supply, but Compute Module will be excluded.

Compute Module can be ordered separately for both single-pack and 10-pack.

1.2 Summary chart

For a quick overview, all configuration options are summarized on below chart. Reference details below in this document for MM numbers, configuration details and product order codes.

EPSD Romley Chassis and Systems shipped to the US & Canada will contain North American power cords. North American customers no longer need to order skus ending in "NA" to receive power cords on Romley products.

BIK:

								Available
Pcode	FF	HDD	# of	HDD	Power supply	Rails	Compute Module	Time
H2312LPJR	2U	3.5	12		2 x 1200W AC	Value	4 x HNS2400LP	Apr-Jun'12
H2312LPQJR	2U	3.5	12		2 x 1200W AC	Value	4 x HNS2400LPQ	Apr-Jun'12
H2312LPFJR	2U	3.5	12		2 x 1200W AC	Value	4 x HNS2400LPF	Non TTM
H2216LPJR	2U	2.5		16	2 x 1200W AC	Value	4 x HNS2400LP	Apr-Jun'12
H2216LPQJR	2U	2.5		16	2 x 1200W AC	Value	4 x HNS2400LPQ	Apr-Jun'12
H2216LPFJR	2U	2.5		16	2 x 1200W AC	Value	4 x HNS2400LPF	Non TTM
H2312LPKR	2U	3.5	12		2 x 1600W AC	Value	4 x HNS2400LP	Q3′12
H2312LPQKR	2U	3.5	12		2 x 1600W AC	Value	4 x HNS2400LPQ	Q3′12
H2312LPFKR	2U	3.5	12		2 x 1600W AC	Value	4 x HNS2400LPF	Non TTM
H2216LPKR	2U	2.5		16	2 x 1600W AC	Value	4 x HNS2400LP	Q3′12
H2216LPQKR	2U	2.5		16	2 x 1600W AC	Value	4 x HNS2400LPQ	Q3′12
H2216LPFKR	2U	2.5		16	2 x 1600W AC	Value	4 x HNS2400LPF	Non TTM

KDK:

								Available
Pcode	FF	HDD	# of	HDD	Power supply	Rails	Compute Module	Time
H2312XXJR	2U	3.5	12		2x1200W AC	Value	Not included	Non TTM
H2216XXJR	2U	2.5		16	2x1200W AC	Value	Not included	Non TTM
H2312XXKR	2U	3.5	12		2x1600W AC	Value	Not included	Q3′12

H2216XXKR	2U	2.5		16	2x1600W AC	Value	Not included	Q3'12
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Compute Module:

					Intel [®] RAID	
			rIOM riser /	RMM4 Lite	C600 Upgrade	Available
Pcode	FF	Integrated InfiniBand	carrier	Key	Key	Time
	1U					Apr-Jun'12
	Compute			Not		
HNS2400LP	Module	No	Not included	included	Not included	
	1U					Apr-Jun'12
	Compute			Not		
HNS2400LPQ	Module	Yes (QDR 40Gb/s)	Not included	included	Not included	
	1U					Non TTM
	Compute			Not		
HNS2400LPF	Module	Yes (FDR 56Gb/s)	Not included	included	Not included	

Board:

			rlOM riser /	RMM4 Lite	Intel [®] RAID C600 Upgrade	Available
Pcode	FF	Integrated InfiniBand	carrier	Key	Key	Time
	6.8" W x					Apr-Jun'12
BBS2400LP	16.6" L	No	Not included	Not included	Not included	
	6.8" W x					Apr-Jun'12
BBS2400LPQ	16.6" L	Yes (QDR 40Gb/s)	Not included	Not included	Not included	
	6.8" W x					Non TTM
BBS2400LPF	16.6" L	Yes (FDR 56Gb/s)	Not included	Not included	Not included	

1.3 Available Production Board order codes

Image	Product Code MM UPC EAN MOQ	Description
	BBS2400LP 919030 735858234986 10	Production Intel® Server Board S2400LP (OEM 10-pack version) - 6.8" W x 16.6" L - 12x DIMMs support DDR3/DDR3L LR/U/R-DIMMs - 4x 3Gb/s SATA/SAS ports from SCU, 1x 6Gb/s SATA DOM ports from AHCI - 1 PCle3 x16 capable slot and 1 PCle3 x8 capable slot (not PCle Sig compatible) - Dual 1GbE - Compatible with Intel® Xeon® processor E5-2400 series.
*Depop board shown	BBS2400LPQ 919031 735858234993 10	Production Intel® Server Board S2400LPQ (OEM 10-pack version) - 6.8" W x 16.6" L - 12x DIMMs support DDR3/DDR3L LR/U/R-DIMMs - 4x 3Gb/s SATA/SAS ports from SCU, 1x 6Gb/s SATA DOM ports from AHCI - 2 PCle3 x8 capable slots (not PCle Sig compatible) - Dual 1GbE - Single InfiniBand QDR (QSFP port) - Compatible with Intel® Xeon® processor E5-2400 series.
*Depop board shown	BBS2400LPF 921307 10	Production Intel® Server Board S2400LPF (OEM 10-pack version) - 6.8" W x 16.6" L - 12x DIMMs support DDR3/DDR3L LR/U/R-DIMMs - 4x 3Gb/s SATA/SAS ports from SCU, 1x 6Gb/s SATA DOM ports from AHCI - 2 PCle3 x8 capable slots (not PCle Sig compatible) - Dual 1GbE - Single InfiniBand FDR (QSFP port) - Compatible with Intel® Xeon® processor E5-2400 series.

1.4 Available Production System order codes

Image	Product Code MM UPC EAN MOQ	Description
*Demo only	H2312LPJR 919008 735858235020 1	The Production Intel® Server System H2312LPJR - 2U H2312XXJR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LP Compute Module There are no required EPSD components to make this system functional
*Demo only	H2312LPQJR 919009 735858235037	The Production Intel® Server System H2312LPQJR - 2U H2312XXJR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LPQ Compute Module (InfiniBand QDR) There are no required EPSD components to make this system functional
*Demo only	H2312LPFJR	The Production Intel® Server System H2312LPFJR - 2U H2312XXJR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LPF Compute Module (InfiniBand FDR) There are no required EPSD components to make this system functional
*Demo only	H2216LPJR 919014 735858235006	The Production Intel® Server System H2216LPJR - 2U H2216XXJR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LP Compute Module There are no required EPSD components to make this system functional
*Demo only	H2216LPQJR 919015 735858235013 1	The Production Intel® Server System H2216LPQJR - 2U H2216XXJR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LPQ Compute Module (InfiniBand QDR) There are no required EPSD components to make this system functional

*Demo only	H2216LPFJR	The Production Intel® Server System H2216LPFJR - 2U H2216XXJR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LPF Compute Module (InfiniBand FDR) There are no required EPSD components to make this system functional
*Demo only	H2312LPKR	The Production Intel® Server System H2312LPKR - 2U H2312XXKR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LP Compute Module There are no required EPSD components to make this system functional
*Demo only	H2312LPQKR	The Production Intel® Server System H2312LPQKR - 2U H2312XXKR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LPQ Compute Module (InfiniBand QDR) There are no required EPSD components to make this system functional
*Demo only	H2312LPFKR	The Production Intel® Server System H2312LPFKR - 2U H2312XXKR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LPF Compute Module (InfiniBand FDR) There are no required EPSD components to make this system functional
*Demo only	H2216LPKR	The Production Intel® Server System H2216LPKR - 2U H2216XXKR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LP Compute Module There are no required EPSD components to make this system functional
	H2216LPQKR	The Production Intel® Server System H2216LPQKR - 2U H2216XXKR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LPQ Compute Module (InfiniBand QDR) There are no required EPSD components to make this system functional

*Demo only	1	
*Demo only	H2216LPFKR	The Production Intel® Server System H2216LPFKR - 2U H2216XXKR Chassis (Blank Node Filler FH2000BNF excluded) - 4x HNS2400LPF Compute Module (InfiniBand FDR) There are no required EPSD components to make this system functional

1.5 Available Production Chassis order codes

Image	Product Code MM UPC EAN MOQ	Description
Coming Soon	H2312XXJR 919020 735858243285 5032037037921 1	The Production Intel® Server Chassis H2312XXJR - 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included) - 2x 1200W Platinum PSU (FXX1200PCRPS) - 12x 3.5" Hot-swap HDDs support (carriers FXX35HSADPB included, backplane FHW12X35HSBP) - 4x Blank Node Filler (FH2000BNF) - Basic rack rail (AXXELVRAIL)
Coming Soon	H2216XXJR 919021 735858243278 5032037037914 1	The Production Intel® Server Chassis H2216XXJR - 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included) - 2x 1200W Platinum PSU (FXX1200PCRPS) - 16x 2.5" Hot-swap HDDs support (carriers FXX25HSCAR included, backplane FHW16X25HSBP) - 4x Blank Node Filler (FH2000BNF) - Basic rack rail (AXXELVRAIL)

Coming Soon	H2312XXKR 919022 735858243292 5032037037938 1	The Production Intel® Server Chassis H2312XXKR - 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included) - 2x 1600W Platinum PSU (FXX1600PCRPS) - 12x 3.5" Hot-swap HDDs support (carriers FXX35HSADPB included, backplane FHW12X35HSBP) - 4x Blank Node Filler (FH2000BNF) - Basic rack rail (AXXELVRAIL)
Coming Soon	H2216XXKR 919023 735858243308 5032037037945 1	The Production Intel® Server Chassis H2216XXKR - 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included) - 2x 1600W Platinum PSU (FXX1600PCRPS) - 16x 2.5" Hot-swap HDDs support (carriers FXX25HSCAR included, backplane FHW16X25HSBP) - 4x Blank Node Filler (FH2000BNF) - Basic rack rail (AXXELVRAIL)

1.6 Available Production Compute Module order codes

Image	Product Code MM UPC EAN MOQ	Description
	HNS2400LP 918380 735858235044 1	The Production Intel® Compute Module HNS2400LP - Intel® Server Board S2400LP included - Node Power Board FH2000NPB included - Bridge Board FHWLPBGB included - Slot1 riser card FHW1U16RISER included - 3x 4056 dual rotor fans FXX4056DRFAN included - 1U passive heatsinks (one FXXEA90X90HS for front, and one FXXCA90X90HS for rear) included - Airduct included - 1U node tray included

	The Production Intel® Compute Module HNS2400LPQ
HNS2400LPQ	Intel® Server Board S2400LPQ included (InfiniBand QDR)
918379	Node Power Board FH2000NPB included Bridge Board FHWLPBGB included
735858235051	 Slot1 riser card FHW1U16RISER included 3x 4056 dual rotor fans FXX4056DRFAN
1	included - 1U passive heatsinks (one
1	FXXEA90X90HS for front, and one FXXCA90X90HS for rear) included
	Airduct included1U node tray included
	The Production Intel® Compute Module HNS2400LPF
HNS2400LPF	Intel® Server Board S2400LPF included (InfiniBand FDR)
	 Node Power Board FH2000NPB included Bridge Board FHWLPBGB included
	- Slot1 riser card FHW1U16RISER included
	3x 4056 dual rotor fans FXX4056DRFAN included
1	 1U passive heatsinks (one FXXEA90X90HS for front, and one
	FXXCA90X90HS for rear) included - Airduct included
	- 1U node tray included

2. Spares and Accessories Order Codes

2.1 General spares and accessories

	Product Code MM	Description	
Image	UPC EAN MOQ		
	AXXRMM4LITE		
	911660		
The state of the s	00735858219297	Activation key for advanced management features	
R SHAR - LITE	5032037014946		
	1		
	AXXRMM4IOM	PCI Express x16 (164 pin) rIOM riser and rIOM	
	918249	carrier board kit for supporting dedicate RMM4 NIC port and containing Intel® I/O module for	
	735858243254	HNS2600JF and HNS2400LP compute module family	
	5032037037891	NOTE: The AXXRMM4LITE is NOT included. It	
	1	must be ordered seperately for advanced management features.	
	FHW1U16RISER		
	916729	1U PCI Express x16 riser card for supporting	
	735858223003	in-board low-profile PCIe adding card of Slot1 on HNS2600JF, HNS2600WP and	
	5032037019286	HNS2400LP compute module family	
	10		
	FXX4056DRFAN		
	918254		
	735858243469	40x56mm Dual Rotor Fan spare	
	5032037038102		
	10		
	FXX1200PCRPS		
	915605	1200W AC Common Redundant Power Supply	
	735858225137	FXX1200PCRPS 80Plus Platinum-Efficiency	
	5032037035071		

	1	
	FXX1600PCRPS	
THE STATE OF THE S	915606	4COOM AC Common Deduction to Device County
	735858243650	1600W AC Common Redundant Power Supply FXX1600PCRPS 80Plus Platinum-Efficiency
	5032037038294	Notes: Available in Q3'12
	1	
	FXXCA90X90HS	
	918255	
	735858235075	1U Standard Cu/Al 90mm x 90mm Heat Sink (Rear Heat Sink)
	2	
	FXXEA90X90HS	
	918256	
	735858235082	1U Standard Ex-Al 90mm x 90mm Heat Sink (Front Heat Sink)
	2	
	FHW12X35HSBP	
	920830	
	735858246729	Spare 12 x 3.5" backplane for H2000 Chassis family
	5032037041188	
	1	
	FHW16X25HSBP	
	920829	
	735858246736	Spare 16 x 2.5" backplane for H2000 Chassis
	5032037041195	family
	1	
	FH2000BNF	
	920831	Spare Blank Node Filler for H2000 Chassis family
	735858246880	laniny

5032037041881	
3032037041001	
10	
FH2000NPB	
920832	
735858246743	Spare Node Power Board for H2000 Chassis family
5032037041201	lattiny
10	
FHWLPBGB	
920834	
	Spare Bridge Board for H2000LP System
10	
FXXCRPSPDB	
921250	
735858246750	Spare Power Distribution Board for Common Redundant Power Supply 1200W and 1600W
5032037041218	of H2000 Chassis
10	
FH2000FPANEL	
920835	
735858246873	Spare front control panel kit for H2000 Chassis
5032037041874	family
1	
FH2000LPMKIT	
919034	
735858235068	Chassis Maintenance Kit FH2000LPMKIT (for Intel® Server System H2000LP family) including (2) Node tray of HNS2400LP, (2) Airduct of HNS2400LP, Cable kit and Screw kit
1	

	FXX25HSCAR	
	918807	
	735858241182	Spare 2.5" HDD hot swap carriers
	5032037035910	
	8	
	FXX35HSADPB	
	912771	
	00735858219495	Spare 3.5" HDD hot swap carriers
	5032037016391	oparo die 1122 net ewap camere
	8	
	AXXELVRAIL	
	920970	
	00735858244367	
	5032037038980	
	1	
	FPWRCABLENA	
	879287	
	735858181129	North American Power Cord Spare
	TBD	Therapy and cold opare
	1	
	A2UBEZEL	
	918086	
	735858241137	2U locking bezel with two branding clip-on
	5032037035880	inserts
	1	
		1

2.2 Dynamic Key spares and accessories

Product Co MM	u c
LIDO	
Image UPC	Description
EAN	
MOQ RKSATA4F	26
NNSA1A4F	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
916346	
7358582388	Intel® RAID C600 Upgrade Key RKSATA4R5, Black
5032037033	
5	
RKSAS4	
916349	
7358582388	
5032037033	Green 671
5	
RKSAS4R	5
916350	
910550	
7358582389	Intel® RAID C600 Upgrade Key RKSAS4R5, Yellow
5032037033	
5	

2.3 Expansion modules: IO Module

Image	Product Code MM UPC EAN MOQ	Description	
	AXX10GBNIAIOM		
	917905	Dual SFP+ port 10GbE IO module based on Intel® 82599 10 Gigabit Ethernet Controller	
	735858241090	Supports direct connect or transceiver.	
	5032037035842	Cables/transceivers not included.	
	1	Includes three screws	

	AXX10GBTWLIOM		
	917907	Dual RJ-45 port 10GBASE-T IO module, based on Intel I350 Ethernet chipset	
	735858241113		
	5032037035866	Includes three screws	
	1		
	AXX4P1GBPWLIO M		
	917911		
	735858241083	Quad port 1GbE IO Module based on Intel® Ethernet Controller I350	
	5032037035835		
	1		
	AXXQAAIOMOD		
	920561		
	TBD	Intel Quick Assist Accelerator I/O Module	
	TBD		
12	1		

2.4 VMware Product Descriptions – Overview

VMware vSphere* software is available as an accessory when ordering an Intel[®] Server Board or Intel[®] Server System. Customers can only order these SKUs at the time they are ordering an Intel[®] Server Board or Intel[®] Server System. These SKUs cannot be ordered individually.

Licensing Per Processor with vRAM Entitlements: VMware vSphere 5 is licensed on a per-processor basis with a vRAM entitlement. Each VMware vSphere 5 processor license comes with an entitlement to a certain amount of vRAM capacity, or memory configured to virtual machines. For more information, VMware's licensing whitepaper can be found at http://www.vmware.com/products/vsphere/overview.html.

2.5 VMware vSphere* and vCenter* Server SKUs

Each VMware vSphere SKU contains a paper certificate with a software product activation code. As directed on the certificate, the end user must register the product activation code with VMware at http://www.vmware.com/code/intel to access VMware Software, Support and Subscription Services.

VMware vSphere* and vCenter* Server Editions

All VMware vSphere SKUs (except Essentials) are bundled with either 1 year VMware Basic (12x5) or with 1 year VMware Production (24x7) Support and Subscription. The Essentials SKU is bundled with 1 year VMware Subscription.

Essentials	VMware vSphere 5 Essentials Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement
	with 1 year VMware Subscription.
	VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192
Essentials Plus	GB vRAM entitlement
Loscittato i las	with 1 year VMware Basic (12x5) Support and Subscription
	with 1 year VMware Production (24x7) Support and Subscription
	VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor)
Standard	
Staridard	with 1 year VMware Basic (12x5) Support and Subscription
	with 1 year VMware Production (24x7) Support and Subscription
	VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor)
Enterprise	
Litterprise	with 1 year VMware Basic (12x5) Support and Subscription
	with 1 year VMware Production (24x7) Support and Subscription
	VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM entitlement per
	processor)
Enterprise Plus	
	with 1 year VMware Basic (12x5) Support and Subscription
	with 1 year VMware Production (24x7) Support and Subscription
	VMware vCenter Server 5 Standard for vSphere 5 (Per Instance)
VMware vCenter*	One instance of vCenter Server is required to centrally manage virtual machines and their hosts and to
Server Standard	enable all VMware vSphere features on Standard, Enterprise and Enterprise Plus editions.
for vSphere 5	with 1 year VMware Basic (12x5) Support and Subscription
-	with 1 year VMware Basic (12x3) Support and Subscription
	with Fyear visiwate Froduction (24x7) Support and Subscription

VMware vSphere* and VMware vCenter* – Order Codes:

Product Code	UPC	ММ	Description	Minimum Order Quantity
VMW5ESS	7 35858 22474 1	918769	Paper certificate containing software license activation code for VMware vSphere 5 Essentials Bundle for 3 hosts (Max 2 processors per host) and 192	1

			GB vRAM entitlement with 1 year VMware Subscription.	
VMW5ESSPLUS	7 35858 22475 8	918774	Paper certificate containing software license activation code VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5ESSPLUSP	7 35858 22476 5	918768	Paper certificate containing software license activation code for VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5STD	7 35858 22477 2	918773	Paper certificate containing software license activation code for VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5STDP	7 35858 22478 9	918767	Paper certificate containing software license activation code for VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5ENT	7 35858 22479 6	918772	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5ENTP	7 35858 22484 0	918770	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5ENTPLUS	7 35858 22480 2	918771	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5ENTPLUSP	7 35858 22481 9	918760	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM	1

			entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	
VMW5VCSTD	7 35858 22482 6	918742	Paper certificate containing software license activation code for VMware vCenter Server 5 Standard for vSphere 5 (Per Instance) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5VCSTDP	7 35858 22483 3	918759	Paper certificate containing software license activation code for VMware vCenter Server 5 Standard for vSphere 5 (Per Instance) with 1 year VMware Production (24x7) Support and Subscription.	1