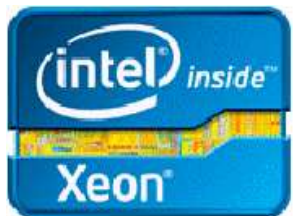


# **Intel® Server Systems R1304RP, Intel® Server Systems P4308RP, Intel® Server Boards S1200RP, and Intel Server Chassis P4304**

## **Configuration Guide and Spares/Accessories List**

A reference guide to assist customers in ordering the necessary components to configure the S1200RP family of Intel® Server Systems building blocks



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Feb`12 – Rev0.2 – First Revision

March '12 Rev 0.3 – Product Code Definition

March '12 Rev 0.5 – Added System BIKs

March '12 Rev 0.6 – Corrected some errors.

June '12 Rev .068 – Post IPA release

Jan '13 Rev .8 – Beta Phase release

Feb '13 Rev .9 – Silver Phase release

April '13 Rev .93 – Start adding UPC and EAN info

May' 13 Rev .95 – Review version for productions

June' 13 Rev 1.0 – Production Launch version

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# 1. Product Order Code Information

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## 1.1 Product Descriptions – Overview

The products that follow are an entry-level family of general-purpose server products designed for small to medium sized business applications, including 1U rack systems supporting advanced management features and rich I/O.

Intel® Server Board Product compatible with the Intel® Xeon® processor E3-1200 V3 series or Intel® Core™ processor i3 series is offered as four SKUs:

1. **Intel® Server Board S1200RPL** – uATX form factor motherboard based on Intel® C226 chipset with the following features:
  - 4 DDR3(1600MHz) ECC UDIMM sockets (Unbuffered)
  - 4 Slots:
    - X8 PCIe Gen 3
    - X8 PCIe Gen 3
    - X4 PCIe Gen 2
    - X1 PCIe Gen 2
  - Other expansion capability: X8 internal Mezz connector for SAS Module
  - Compatible with Intel® Xeon® processor E3 1200 v3 series/ Intel® Core® processor i3 series
  
2. **Intel® Server Board S1200RPS** - uATX form factor motherboard based on Intel C222 chipset with the following features:
  - 4 DDR3(1600MHz) ECC UDIMM sockets (Unbuffered)
  - 4 Slots:
    - X8 PCIe Gen 3
    - X8 PCIe Gen 3
    - X4 PCIe Gen 2
    - X1 PCIe Gen 2
  - Compatible with Intel® Xeon® processor E3 1200 v3 series/ Intel® Core® processor i3 series
  
3. **Intel® Server Board S1200RPO** - uATX form factor motherboard based on Intel C224 chipset with the following features:
  - 4 DDR3(1600MHz) ECC UDIMM sockets (Unbuffered)
  - 1 Slot for Riser: X8 PCIe Gen 3
  - Other expansion capability: X8 internal or X8 external Mezz connector or 2 x4 Mezz connectors
  - Compatible with Intel® Xeon® processor E3 1200 v3 series/ Intel® Core® processor i3 series
  
4. **Intel® Server Board S1200RPM** - uATX form factor motherboard based on Intel C226 chipset with the following features:
  - 4 DDR3(1600MHz) ECC UDIMM sockets (Unbuffered)
  - 1 Slot for Riser: X8 PCIe Gen 3
  - Other expansion capability: X8 internal or X8 external Mezz connector or 2 x4 Mezz connectors

- Compatible with Intel® Xeon® processor E3 1200 v3 series/ Intel® Core® processor i3 series

Rack System Product based on the Intel® Server Board S1200RP is offered in the following SKUs:

1. **Intel® Server System R1304RPSSFBN (Integrated SKU).** Intel Server Board S1200RPS integrated into 1U rack chassis with 4 x Fixed HDD Carriers, and a 350W non-redundant PS.
2. **Intel® Server System R1304RPOSHBN (Integrated SKU).** Intel Server Board S1200RPO integrated into 1U rack chassis with 4 x 3.5" HS HDD Carriers, and a 350W non-redundant PS.
3. **Intel® Server System R1304RPMSHOR (Integrated SKU).** Intel Server Board S1200RPM integrated into 1U rack chassis with 4 x 3.5" HS HDD Carriers, and a 450W redundant PS.
4. **Intel® Server System R1208RPOSHOR (Integrated SKU).** Intel Server Board S1200RPO integrated into 1U rack chassis with 8 x 2.5" HS HDD Carriers, and a 450W redundant PS.
5. **Intel® Server System P4308RPLSHDR (Integrated SKU).** Intel Server pedestal chassis with 8 x HS HDD Carriers, w/ 460W redundant power supply.

**Not included in systems:** System does not include Processors, DDR3 main memory, hard drives, and other customer configuration items



Pedestal Chassis Product validated with the Intel® Server Board S1200RP will be offered as these SKUs:


1. **Intel® Server Chassis P4304XXSFCN (Chassis SKU).** Intel Server pedestal chassis with 4 x Fixed (3.5") HDD Carriers, and a 365W non-redundant power supply. (Validated with SE and LC)
2. **Intel® Server Chassis P4304XXSHCN (Chassis SKU).** Intel Server pedestal chassis with 4 x Hot Swap (3.5") HDD Drive Kit, and a 365W non-redundant power supply. (validated with LC)

**Not included in systems:** Systems do not include Processors, DDR3 main memory, hard drives, and other customer configuration items

## 1.2 Production Order Codes for Intel Server Boards and Intel Server Systems, and Intel Server Chassis available WW23


**Not included in systems:** Processors, DDR3 main memory, hard drives, and other customer configuration items are not included in below SKUs.






Image	Product Code MM UPC EAN	Description
	DBS1200V3RPS 927057 00735858266543 5032037053358 5	<b>Intel® Server Board S1200RPS</b> with Intel® C222 chipset 4 DDR3 UDIMM sockets (Unbuffered) 2 channel native (1600MHz)
	R1304RPOSHBN 927914 00735858266901 5032037053587 1	<b>Intel® Server System R1304RPOSHBN</b> <b>Includes:</b> <ul style="list-style-type: none"> <li>• Intel® Server Board S1200RPO with Intel® C224 chipset</li> <li>• Intel Server Chassis R1304</li> <li>• One 4-port passive SAS/SATA Backplane</li> <li>• 4 3.5" Hot Swap HDD sleds</li> <li>• 3 non-redundant non-hotswap fans</li> <li>• 1 full-height riser (one x16 connector), supporting a FHML addin card</li> <li>• 1 Silver efficient 350W power supply</li> <li>• 4 SATA cables for 3.5" HDD bays</li> <li>• 1 cable for Optical drive bay</li> <li>• 1 passive processor heatsink</li> <li>• Documentation (Quick Start Guide, Quick Reference label, Attn Doc, RoHS Declaration)</li> <li>• Resource CD with utilities, drivers, documentation and technical information</li> <li>• Intel System Management Software CD</li> <li>• 2 chassis front handles in the box (ears)</li> </ul>

	<p>R1304RPSSFBN 927911 00735858266895 5032037053570 1</p>	<p><b>Intel® Server System R1304RPSSFAN</b></p> <p><b>Includes:</b></p> <ul style="list-style-type: none"> <li>• Intel® Server Board S1200RPS with Intel® C222 chipset</li> <li>• Intel Server Chassis R1304 (Fixed HDD)</li> <li>• 4 fixed 3.5" HDD sleds</li> <li>• 3 non-redundant non-hotswap fans</li> <li>• 1 full-height riser (one x16 connector), supporting a FHML addin card</li> <li>• 1 350W power supply</li> <li>• 4 SATA cables for 3.5" HDD bays</li> <li>• 1 cable for Optical drive bay</li> <li>• 1 passive processor heatsink</li> <li>• Documentation (Quick Start Guide, Quick Reference label, Attn Doc, RoHS Declaration)</li> <li>• Resource CD with utilities, drivers, documentation and technical information</li> <li>• 2 chassis front handles in the box (ears)</li> </ul>
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### 1.3 Production Order Codes for Intel Server Boards and Intel Server Systems, and Intel Server Chassis available ~WW30




**Not included in systems:** Processors, DDR3 main memory, hard drives, and other customer configuration items are not included in below SKUs.

Image	Product Code MM UPC EAN	Description
	<p>DBS1200V3RPL 927055 00735858266529 5032037053334 5</p>	<p><b>Intel® Server Board S1200RPL</b> with Intel® C226 chipset 4 DDR3 UDIMM sockets (Unbuffered) 2 channel native (1600MHz)</p>

	<p>BBS1200V3RPL 927054</p> <p>00735858266536 5032037053341</p> <p>10</p>	<p><b>Intel® Server Board S1200RPL</b> with Intel® C224 chipset. (shipped in bulk pack of 10) (Intended for large OEM customers)</p>
	<p>BBS1200V3RPS 927056</p> <p>00735858266550 5032037053365</p> <p>10</p>	<p><b>Intel® Server Board S1200RPS</b> with Intel® C222 chipset. (shipped in bulk pack of 10) (Intended for large OEM customers)</p>
	<p>DBS1200V3RPO 927059</p> <p>00735858266567 5032037053372</p> <p>5</p>	<p><b>Intel® Server Board S1200RPO</b> with Intel® C224 chipset. Disti 5 pack – (5 single pack server boards in a disti overpack box)</p>
	<p>DBS1200V3RPM 927061</p> <p>00735858266581 5032037053396</p> <p>5</p>	<p><b>Intel® Server Board S1200RPM</b> with Intel® C226 chipset. Disti 5 pack – (5 single pack server boards in a disti overpack box)</p>
	<p>BBS1200V3RPO 927058</p> <p>00735858266574 5032037053389</p> <p>10</p>	<p><b>Intel® Server Board S1200RPO</b> with Intel® C224 chipset. (shipped in bulk pack of 10) (Intended for large OEM customers)</p>



	<p>BBS1200V3RPM 927060 00735858266598 5032037053402  10</p>	<p><b>Intel® Server Board S1200RPM</b> with Intel® C226 chipset. (shipped in bulk pack of 10) (Intended for large OEM customers)</p>
	<p>SVCEWUPBD  911292  UPC  EAN  1</p>	<p><b>Intel® Server Component Extended Warranty</b> Extended Warranty SKU for S1200RPL, S1200RPS, S1200RPO, and S1200RPM  Extends Warranty from 3 years to 5 years</p>
	<p>R1304RPOSHBN 927914 00735858266901 5032037053587 1</p>	<p><b>Intel® Server System R1304RPOSHBN</b> <b>Includes:</b></p> <ul style="list-style-type: none"> <li>• Intel® Server Board S1200RPO with Intel® C224 chipset</li> <li>• Intel Server Chassis R1304</li> <li>• One 4-port passive SAS/SATA Backplane</li> <li>• 4 3.5" Hot Swap HDD sleds</li> <li>• 3 non-redundant non-hotswap fans</li> <li>• 1 full-height riser (one x16 connector), supporting a FHML addin card</li> <li>• 1 Silver efficient 350W power supply</li> <li>• 4 SATA cables for 3.5" HDD bays</li> <li>• 1 cable for Optical drive bay</li> <li>• 1 passive processor heatsink</li> <li>• Documentation (Quick Start Guide, Quick Reference label, Attn Doc, RoHS Declaration)</li> <li>• Resource CD with utilities, drivers, documentation and technical information</li> <li>• Intel System Management Software CD</li> <li>• 2 chassis front handles in the box (ears)</li> </ul>
	<p>R1304RPSSFBN 927911 00735858266895 5032037053570 1</p>	<p><b>Intel® Server System R1304RPSSFAN</b> <b>Includes:</b></p> <ul style="list-style-type: none"> <li>• Intel® Server Board S1200RPS with Intel® C222 chipset</li> <li>• Intel Server Chassis R1304 (Fixed HDD)</li> <li>• 4 fixed 3.5" HDD sleds</li> <li>• 3 non-redundant non-hotswap fans</li> <li>• 1 full-height riser (one x16 connector), supporting a FHML addin card</li> <li>• 1 350W power supply</li> <li>• 4 SATA cables for 3.5" HDD bays</li> <li>• 1 cable for Optical drive bay</li> <li>• 1 passive processor heatsink</li> <li>• Documentation (Quick Start Guide, Quick Reference label, Attn Doc, RoHS Declaration)</li> <li>• Resource CD with utilities, drivers, documentation and technical</li> </ul>

		<p>information</p> <ul style="list-style-type: none"> <li>• 2 chassis front handles in the box (ears)</li> </ul>
	<p>R1304RPMSHOR 930261 00735858266918 5032037053594 1</p>	<p><b>Intel® Server System R1304RPMSHOR</b> <b>Includes:</b></p> <ul style="list-style-type: none"> <li>• Intel® Server Board S1200V3RPM with Intel® C226 chipset</li> <li>• Intel Server Chassis R1304 (HS HDD)</li> <li>• 4 HS 3.5" HDD sleds</li> <li>• 3 non-redundant non-hotswap fans</li> <li>• 1 full-height riser (one x16 connector), supporting a FHML addin card</li> <li>• 2 efficient 450W HS power supply</li> <li>• 4 SATA cables for 3.5" HDD bays</li> <li>• 1 cable for Optical drive bay</li> <li>• 1 passive processor heatsink</li> <li>• Documentation (Quick Start Guide, Quick Reference label, Attn Doc, RoHS Declaration)</li> <li>• Resource CD with utilities, drivers, documentation and technical information</li> </ul> <p>2 chassis front handles in the box (ears)</p>
	<p>R1208RPOSHOR 927916 00735858266925 5032037053600 1</p>	<p><b>Intel® Server System R1208RPOSHOR</b> <b>Includes:</b></p> <ul style="list-style-type: none"> <li>• Intel® Server Board S1200RPO with Intel® C224 chipset</li> <li>• Intel Server Chassis R1304 (HS HDD)</li> <li>• 8 HS 2.5" HDD sleds</li> <li>• 3 non-redundant non-hotswap fans</li> <li>• 1 full-height riser (one x16 connector), supporting a FHML addin card</li> <li>• 2 efficient 450W HS power supply</li> <li>• 8 SATA cables for 2.5" HDD backplane</li> <li>• 1 cable for Optical drive bay</li> <li>• 1 passive processor heatsink</li> <li>• Documentation (Quick Start Guide, Quick Reference label, Attn Doc, RoHS Declaration)</li> <li>• Resource CD with utilities, drivers, documentation and technical information</li> </ul> <p>2 chassis front handles in the box (ears)</p>
	<p>P4304XXSFCN 911754 00735858219358 5032037016933 1</p>	<p><b>Intel® Server Chassis P4304XXSFCN</b> (Entry Pedestal Chassis w/ 4 Fixed HDD sleds, 365W non-redundant power supply)</p> <ul style="list-style-type: none"> <li>• 4 x Fixed (3.5") HDD Carriers</li> <li>• 1 rear chassis fan</li> <li>• 1 365W power supply</li> <li>• 4 SATA cables</li> </ul>




	<p>P4304XXSFDR</p>	<p><b>Intel® Server Chassis P4304XXSFDR</b> (Entry Pedestal Chassis w/ 4 Fixed HDD sleds, 460W redundant power supply)</p> <ul style="list-style-type: none"> <li>• 4 x Fixed (3.5") HDD Carriers</li> <li>• 1 rear chassis fan</li> <li>• 2 460W power supply</li> <li>• 4 SATA cables</li> </ul>
	<p>P4304XXSHCN 911765 00735858219365 5032037016940 1</p>	<p><b>Intel® Server Chassis P4304XXSFCN</b> (Entry Pedestal Chassis w/ 4 HS HDD sleds, 365W non-redundant power supply)</p> <ul style="list-style-type: none"> <li>• 4 x Fixed (3.5") HDD Carriers</li> <li>• 1 rear chassis fan</li> <li>• 1 365W power supply</li> <li>• 4 SATA cables</li> </ul>
	<p>P4304RPLSHDR 927918 00735858266932 5032037053617 1</p>	<p><b>Intel® Server Chassis P4304RPLSHDR</b> (Entry Pedestal Chassis w/8 x Hot Swap (3.5") HDD Drive Kit, 460W HS power supply)</p> <ul style="list-style-type: none"> <li>• 8 x HS (3.5") HDD Carriers</li> <li>• 1 rear chassis fan</li> <li>• 1 460W HS CRPS power supply</li> <li>• 8 SATA cables</li> </ul>
	<p>SVCEWUPSY 911293 1</p>	<p><b>Intel® Server Component Extended Warranty</b> Extended Warranty SKU for UP Systems Extends Warranty from 3 years to 5 years</p>

## 2. Spares and Accessories Order Codes



### 2.1 I/O Module Accessories

Image	Product Code MM UPC	Description
 <p>For Demo only</p>		Internal 4-port SAS module (JB040)
 <p>For Demo only</p>		Internal 4-port SAS RAID (CB040)
		Internal 8-port SAS (6Gb) (JB080)
		Internal 8-port SAS (6Gb) (CB080)
	AXXRAKSW5 878958 00735858181860 5	Intel RAID Activation Key AXXRAKSW5 to enable SW RAID 5 for Embedded SW RAID Technology stack on MB SATA ports (compatible with both S1200RPL, and S1200RPS)
		<b>Intel® Server Component Extended Warranty</b> Extended Warranty SKU RAID Extends Warranty from 3 years to 5 years

## 2.2 Management Module Accessories

Image	Product Code MM UPC EAN MOQ	Description
	AXXRMM4LITE 911660 00735858219297 5032037014946 1	<b>Intel® Remote Management Module RMM4 LITE</b> - Remote KVM upgrade Key
	AXXRMM4 911670 00735858219303 5032037014922 1	<b>Intel® Remote Management Module RMM5</b> – Remote KVM upgrade with Dedicated NIC Module
	AXXTPME3 912429 00735858219310 5032037015196 1	<b>Intel® TPM Trusted Platform Module</b>

## 2.3 System Spares and Accessories


Image	Product Code MM UPC EAN MOQ	Description
	AXXVPSRAIL 928722 00735858265324 5032037053280 1	Value Rail Kit Works for 438mm wide Intel 1U/2U Rack Chassis (R1300, R1200)
	FXXFPANEL 915982 00735858222419 5032037018968 1	Front Panel board spare for use on all 1U/2U (R1300, R1200, R2200, 2300) Rack chassis and P4300 Pedestal Chassis
Image not yet available	AXXE34DRVCL 1	SAS Cable from IOM to backplane, miniSAS 8087 to 4 SATA connectors
Image not yet available	AXXE38DRVCL 928729 00735858263603 5032037052832	SAS Cable from IOM to backplane, miniSAS 8087 to mini 8087

	1	
 <p>For demo only</p>	FR1304E3V3MSK 928727 00735858263689 5032037052917 1	Mechanical Spares Kit for R1304 Rack Chassis Contains: IO Bracket Mounting Screw for 8*2.5 Front end IOM Bracket IO Bracket (without knockouts) BBU Bracket CDROM Filler Panel - Screw On for 1U chassis ODD latch w/2screws 1U Loop Rack Handles (set) CPU socket spacer PSU Cable Clip Standoff for Zepher board MB Bumper Pad SAS module standoff
 <p>For demo only</p>	FR1304E3V3ESK 928728 00735858263696 5032037052924 1	Electrical Spares Kit for R1304 Rack Chassis Contains Front Panel Cable (24pin) Dual USB2.0 Cable Dual USB3.0 Cable 4 x SATA cable for HDDs SATA cable for ODD Power adapter cable 3pin to 5pin I2C Cable SGPIO cable SATA to Mini-SAS cable
	FUP4X35HSDK 911885 00735858219440 5032037016230 1	3.5" Hot Swap Drive Kit for P4000 server chassis.  Includes: Drive Cage, Hot Swap Back Plane, 4 Hot Swap Drive carriers, data cables, I <sup>2</sup> C cable, and ID filler
	FUP8X35HSDK 915608 00735858235907 5032037030663 1	8x3.5" Hot Swap Drive Cage Kit for P4000 server chassis.  Includes: Drive Cage, Hot Swap Back Plane, 8 Hot Swap Drive Carriers, data cables, I <sup>2</sup> C cable, and ID filler panel
	FXX35HSADPB 911771 00735858219495 5032037016391 8	3.5" HDD Hot Swap carrier spares for either R1304, R2300, or P4300 chassis
	FUPBEZELFIX 911886 00735858219457 5032037016254 1	Pedestal Bezel (Fixed version) (fits P4304)

	<p>FUPBEZELHSD 911896 00735858219464 5032037016261 1</p>	<p>Pedestal Bezel (w/door for HS bays) (fits P4304 with HS drive bays installed)</p>
	<p>FUP4X35NHDK 912770 00735858219488 5032037016247 4</p>	<p>Fixed drive carrier for fixed Pedestal chassis (Fits P4304)</p>
<p>For demo only</p>	<p>FUPSMSK 912773 00735858219518 5032037016292 1</p>	<p>Chassis Maintenance kit for P4000S server chassis (Mechanical Spares Kit) Includes mechanical parts – including:</p> <ul style="list-style-type: none"> <li>• IO Bracket (without knockouts)</li> <li>• IO Bracket (w/USB and D Sub knockout)</li> <li>• Baseboard Insulators – uATX and ATX</li> <li>• BBU Bracket</li> <li>• Intrusion Switch Bracket</li> <li>• CDROM Filler Panel</li> <li>• ODD latch w/2 screws</li> <li>• Rack Handles (set)</li> <li>• Fan Holder Assembly</li> <li>• CPU Ducts</li> </ul>
<p>For demo only</p>	<p>FUPSESK 912774 00735858219525 5032037016285 1</p>	<p>Chassis Maintenance kit for P4000S (Electrical Spare Kit) Includes:</p> <ul style="list-style-type: none"> <li>• 1x Front Panel Cable, 920mm</li> <li>• 1x USB Cable, one 2x5 pin header to two USB type A female headers, 950mm</li> <li>• 1xintrusion cable, 200mm</li> <li>• 3x SATA power cables, one 4- pin ATX power header to 2 SATA power headers, 150mm</li> <li>• 1x SATA extend Cable, one right angle header to one vertical header, 600mm</li> <li>• 1xSGPIO Cable, one 5-pin header to one 5-pin header and one 4-pin header.</li> <li>• 1x I<sup>2</sup>C Cable, one 5-pin header to one 3 pin header, 600mm</li> </ul> <p>1xSATA power adaptor extend cable, 24-pin header to 24-pin header, 630mm</p>
	<p>FUP4X35HSBP 913595 00735858220033 5032037019279 1</p>	<p>4 x 3.5" hard drive Hot Swap Backplane spare for P4304 Pedestal chassis</p>
	<p>FUP8X35HSBP 916353 00735858222792 5032037033480 1</p>	<p>Hot Swap Back Plane spare for 8x3.5" Drive Cage Kit FUP8X35HSDK for use with P4000 server chassis.</p> <p>Includes: (1) 3.5" backplane board</p>

	AXXSATADVDROM 906872 00735858197663 1	Slimline SATA DVDROM Accessory
	AXXSATADVDRWROM 906873 00735858197670 1	Slim SATA DVD+/-RW ROM Accessory
	FPWRCABLENA 879287 00735858181129 1	North American Power Cord Spare
 For demo only	FR1000E3FAN 928726 00735858266949 5032037053624 2	R1000 Chassis Family Fan spare kit.
	FXX1304HSBP 917420 00735858223126 5032037019323 1	Hot Swap Backplane spare for R1304 1U chassis
 For demo only	AS1200V3RPIOS 927354 50	I/O Shield for Intel® S1200V3RP Server Boards
Image not yet available	F1UE3PASSHS 928921 1	Passive Heatsink Spare


## 2.4 Power Sub-system Spares

Image	Product Code MM UPC	Description
	FUP365SNRPS 911884 00735858219433 5032037016223 1	365W Pedestal Fixed PS Spare



	<p>FX460GCRPS 915603</p> <p>00735858235846 5032037030595</p> <p>1</p>	<p>460W Cold Redundant Power Supply spare 80Plus Gold efficiency for P4000, R1000, and R2000 server chassis</p>
	<p>FUPDBLC 916812</p> <p>00735858238731 5032037033510</p> <p>1</p>	<p>Power Distribution Board Spare (Low Current) for P4000 server chassis. Recommended to use with FX460GCRPS or FX750PCRPS power supplies.</p>
	<p>FR1000PS350 912801</p> <p>00735858219853 5032037015769</p> <p>1</p>	<p>350W Fixed PS Spare for Rack</p>
	<p>F1U450WPSU 921471</p> <p>00735858247962 5032037042840</p> <p>1</p>	<p>450W AC miniERP 80+ Gold efficiency power supply spare</p>
	<p>F1U450WPDB 921473</p> <p>00735858247979 5032037042857</p> <p>1</p>	<p>450W AC miniERP 80+ Gold efficiency power supply PDB and Cage spare</p>

## 2.5 Riser Spares and Accessories

Image	Product Code MM UPC EAN MOQ	Description
	<p>F1US8RISER 916134</p> <p>00735858222426 5032037018975</p> <p>1</p>	<p>1 slot PCI-e Riser. Riser provides: 1 full-size x16 physical x8 electrical slot</p>