

viglen

Servers and Storage Catalogue



Spring 2014

IT's Personal

Virtualisation Ready Servers from Viglen

Viglen is the only UK Educational Solutions organisation to be fully ISO 20000 accredited - the international standard for IT Service Management. ISO 20000-1 promotes the adoption of an integrated process approach to deliver managed services effectively and meet business and customer requirements. For further information, please see www.viglen.co.uk



Viglen servers are equipped with Intel® Virtualisation Technology integrated into key components: processor, chipset and networking to enhance virtualisation performance, improve application response time, provide greater reliability and disaster recovery flexibility.

Virtualising your servers can enable workload balancing and optimisation to increase efficiency and productivity over your infrastructure.

Benefits include lower hardware demand, reduced power and cooling requirements and simplified management with higher availability. This means you need fewer physical servers; fewer machines use less power, saving you money.

Viglen is an expert at designing and implementing full or part virtualised server environments with a range of storage, backup and networking options.

To find out how a Server Virtualisation Solution from Viglen could benefit you, call our sales team on 01727 201 860 or email sales@viglen.co.uk



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viglen

Great
Minds
Think

viglen

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Entry Level Servers

Entry level servers are the perfect choice for environments with up to 50 users, such as small offices or individual classrooms. The general-purpose entry level server's typical role would be for file, print or email tasks. It's a perfect platform for single applications where cost is a key driver and performance is not mission-critical. All of our single socket servers utilise the power of the Intel® Xeon® E3-1200 series processors and run on the Intel C204 chipsets to provide essential server-class features.



IX1300 Entry Level Server

Tower Server Chassis

Intel® C204 Chipset

Single Intel® Xeon® Quad Core E3-1220
3.00GHz Processor

1GB DDR3-1333 ECC memory

Four DIMM sockets for up to 32GB DDR3

Onboard SATA Controller

Four 3.5" fixed SATA bays

Four PCI-Express and one PCI expansion slots

Integrated Dual Intel® Gigabit Ethernet

Single fixed 400W PSU

Intel® System Management Software

3 Years On-Site Next Business Day Warranty

Order Code: **SERVERS**

IX1300 from **£599**

Entry Level Server Processor Upgrade Options

Order Code	Description	Watts	Price
UAXTX225	Upgrade to Intel® Xeon® Processor Quad Core E3-1225, 3.20GHz, 8MB Cache	95W	£16
UAXTX230	Upgrade to Intel® Xeon® Processor Quad Core E3-1230, 3.30GHz, 8MB Cache	95W	£22
UAXTX240	Upgrade to Intel® Xeon® Processor Quad Core E3-1240, 3.40GHz, 8MB Cache	95W	£45

Entry Level Server Memory Upgrade Options

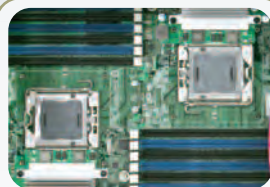
2GB(4P2)	Upgrade to 2GB DDR3-1333 ECC SDRAM (2x 1GB)	£21
4GB(4P2)	Upgrade to 4GB DDR3-1333 ECC SDRAM (2x 2GB)	£35
8GB(4P2)	Upgrade to 8GB DDR3-1333 ECC SDRAM (4x 2GB)	£93

Entry Level Server Optical Options

DVDWRK1	Multi-format DVD Writer/CD-RW Drive - Black SATA for IX1010	£14
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The versatile IX3100 Workgroup Server

Improved Chassis design delivering quiet operation and lower power consumption



Single or Dual powerful and intelligent Intel® Xeon® E5-2600v2 series processors using Intel® Quick Path Interconnect technology



24 DDR3 Memory Sockets supporting up to 768GB 1866MHz DDR3 ECC Registered Memory



Integrated SATA RAID controller with upgrade options to SAS RAID solutions



Highly flexible storage configurations providing up to 32TB capacity



Embedded Quad Intel® Gigabit Ethernet ports for enhanced communication



Upgrade to the Intel® Remote Management Module allowing secure access to control servers remotely from anywhere

IX3100



Intel, the Intel logo, Intel Core, and Core Inside are trademarks of Intel Corporation in the U.S. and other countries.

Viglen's next-generation Workgroup Servers use the power of Intel® Xeon® E5-2600 series processors and Intel® QuickPath Interconnect technology to maximise performance. All models support up to two processors and both pedestal or rack mount versions offer enterprise class features and scalable management as standard.



IX3100 Workgroup Server

Tower Server Chassis
 Intel® C600-A High Performance Server Chipset
 Single Quad Core Intel® Xeon® E5-2603v2 1.80GHz 10MB 6.40GT / sec
 4GB Registered DDR3 1866MHz with Twenty Four DIMM sockets for up to 768GB of memory
 Eight 3.5" Fixed Drive bays (Optional upgrade to Hot-Swap bays up to eight 3.5" or up to twelve 2.5")
 Three 5.25" Peripheral Bays

Integrated SATA controller (Optional RAID controller upgrades available)
 Six PCI-Express Slots
 Integrated Dual Intel® Gigabit Ethernet
 600W PSU with Redundant 1+1 Option
 Intel® System Management Software
 3 Year On-Site Next Business Day Warranty

Order Code: **SERVERS2**

Pedestal Server from **£905**



Order Code: **SERVERS2**

1U Rack Server from **£1,525**

IX3300/R 1U Workgroup Server

Intel® C602 High Performance Server Chipset
 Single Quad Core Intel® Xeon® E5-2603 1.80GHz 10MB 6.40GT / sec
 4GB Registered DDR3 1666MHz with Twenty Four DIMM sockets for up to 768GB memory
 Integrated SATA controller (Optional RAID with activation key)
 Four 3.5" Hot-Swap Drive Bays

Optional Slim-line optical / floppy Drive
 Two Full Height PCI-Express slots
 Integrated Quad Intel® Gigabit Ethernet
 750W Redundant 1+1 high-efficiency power supplies
 Intel® System Management Software
 3 Year On-Site Next Business Day Warranty



Order Code: **SERVERS**

2U Rack Server from **£1,699**

IX3600/R 2U Workgroup Server

Intel® C602 High Performance Server Chipset
 Single Quad Core Intel® Xeon® E5-2603 1.80GHz 10MB 6.40GT / sec
 4GB Registered DDR3 1666MHz with Twenty Four DIMM sockets for up to 768GB memory
 Integrated SATA controller (Optional RAID with activation key)
 Eight 3.5" Hot-Swap Drive Bays

Optional Slim-line optical / floppy Drive
 Three Full Height PCI-Express Slots
 Integrated Quad Intel® Gigabit Ethernet
 750W Redundant 1+1 high-efficiency power supplies
 Intel® System Management Software
 3 Year On-Site Next Business Day Warranty



Order Code: **SERVERS**

1U Rack Server from **£1,745**

IX3320/RS 1U Workgroup Server

Intel® C602 High Performance Server Chipset
 Single Quad Core Intel® Xeon® E5-2603 1.80GHz 10MB 6.40GT / sec
 4GB Registered DDR3 1666MHz with Twenty Four DIMM sockets for up to 768GB memory
 Eight 2.5" Hot-Swap Drive Bays
 Integrated SATA (Optional upgrade to hardware RAID)

Optional Slim-line optical / floppy Drive
 Two Full height PCI-Express slot
 Integrated Quad Intel® Gigabit Ethernet
 750W Redundant 1+1 high-efficiency power supplies
 Intel® System Management Software
 3 Year On-Site Next Business Day Warranty

Optional Embedded Virtualisation Hardware available



Order Code: **SERVERS**

2U Rack Server from **£1,755**

IX3620/RS 2U Workgroup Server

Intel® C602 High Performance Server Chipset
 Single Quad Core Intel® Xeon® E5-2603 1.80GHz 10MB 6.40GT / sec
 4GB Registered DDR3 1666MHz with Twenty Four DIMM sockets for up to 768GB memory
 Eight 2.5" Hot-Swap Drive Bays (Expandable to up to Twenty Four)
 Integrated SATA (Optional upgrade to hardware RAID)

Optional Slim-line optical / floppy Drive
 Three full height PCI-Express Slots
 Integrated Quad Intel® Gigabit Ethernet
 750W Redundant 1+1 high-efficiency power supplies
 Intel® System Management Software
 3 Year On-Site Next Business Day Warranty

Optional Embedded Virtualisation Hardware available

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Workgroup Servers

Workgroup Server Processor Upgrade Options		See key below for abbreviations		
Order Code	Description	TB	Watts	Price
UAXQZ609	Upgrade to Single Intel® Xeon® Processor Quad Core E5-2609v2, 2.50Ghz with 10MB and 6.4 GT/sec QPI	-	80W	£75
UAXQZ620	Upgrade to Single Intel® Xeon® Processor Six Core E5-2620v2 2.10Ghz with 15MB and 7.2 GT/sec QPI	✓	80W	£159
UAXQZ630	Upgrade to Single Intel® Xeon® Processor Six Core E5-2630v2 2.60Ghz with 15MB and 7.2 GT/sec QPI	✓	80W	£321
UAXQZ650	Upgrade to Single Intel® Xeon® Processor Eight Core E5-2650v2 2.60Ghz with 20MB and 8.0 GT/sec QPI	✓	95W	£755
UAXQZ670	Upgrade to Single Intel® Xeon® Processor Ten Core E5-2670v2 2.50Ghz with 25MB and 8.0 GT/sec QPI	✓	115W	£1057
U2XQZ603	Upgrade to Two Intel® Xeon® Processor Quad Core E5-2603v2, 1.80Ghz with 10MB and 6.4 GT/sec QPI	-	160W	£162
U2XQZ609	Upgrade to Two Intel® Xeon® Processor Quad Core E5-2609v2, 2.50Ghz with 10MB and 6.4 GT/sec QPI	-	160W	£309
U2XQZ620	Upgrade to Two Intel® Xeon® Processor Six Core E5-2620v2 2.10Ghz with 15MB and 7.2 GT/sec QPI	✓	160W	£480
U2XQZ630	Upgrade to Two Intel® Xeon® Processor Six Core E5-2630v2 2.60Ghz with 15MB and 7.2 GT/sec QPI	✓	160W	£805
U2XQZ650	Upgrade to Two Intel® Xeon® Processor Eight Core E5-2650v2 2.60Ghz with 20MB and 8.0 GT/sec QPI	✓	190W	£1673
U2XQZ670	Upgrade to Two Intel® Xeon® Processor Ten Core E5-2670v2 2.50Ghz with 25MB and 8.0 GT/sec QPI	✓	230W	£2277

TB = Intel® Turbo Boost Technology - Boosts performance for specific workloads by increasing processor frequency

Single CPU Memory Upgrade Options			Dual CPU Memory Upgrade Options		
Order Code	Description	Price	Order Code	Description	Price
8GB(24B2)	Upgrade to 8GB DDR3 1866MHz Registered DIMM (2 x 4GB)	£35	8GB(24B4)	Upgrade to 8GB DDR3 1866MHz Registered DIMM (4 x 2GB)	£45
16GB(24B4)	Upgrade to 16GB DDR3 1866MHz Registered DIMM (4 x 4GB)	£110	16GB(24B4)	Upgrade to 16GB DDR3 1866MHz Registered DIMM (4 x 4GB)	£110
32GB(24B8)	Upgrade to 32GB DDR3 1866MHz Registered DIMM (8 x 4GB)	£210	32GB(24B8)	Upgrade to 32GB DDR3 1866MHz Registered DIMM (8 x 4GB)	£210
64GB(24B8)	Upgrade to 64GB DDR3 1866MHz Registered DIMM (8 x 8GB)	£465	64GB(24B8)	Upgrade to 64GB DDR3 1866MHz Registered DIMM (8 x 8GB)	£465

Workgroup Server Expansion Module Options		
Order Code	Description	Price
CNCEP40M	Quad port Gb Ethernet I/O Expansion Module (Can only have single module per server)	£235
CNCEPCSM	Dual port 10Gb Ethernet SFP+ I/O Expansion module (Can only have single module per server)	£415
CNCEPCRM	Dual port 10Gb Ethernet RJ45 I/O Expansion module (Can only have single module per server)	£345

Workgroup Server Upgrade Options		
Order Code	Description	Price
PSX4HS05	Vig842 4-Bay 3.5" SATA/SAS Hot-Swap HDD Cage for IX3100	£30
USX4HS05	Vig842 8-Bay 3.5" SATA/SAS Hot-Swap HDD Cage for IX3100	£59
PSX6HS01	Vig842 6-Bay 2.5" SAS Hot-Swap HDD Cage for IX3100	£46
USX6HS01	Vig842 12-Bay 2.5" SAS Hot-Swap HDD Cage for IX3100	£99
PSXSR4ST	Intel® SATA Software RAID Activation Key - 4 Port - 0,1,5,10	£54
PSXSR8ST	Intel® SATA Software RAID Activation Key - 8 Port - 0,1,10	£25
PSXSR8S5	Intel® SATA Software RAID Activation Key - 8 Port - 0,1,5,10	£68
PSXSR4SA	Intel® SAS Software RAID Activation Key - 4 Port - 0,1,10	£35
PSXSR4A5	Intel® SAS Software RAID Activation Key - 4 Port - 0,1,5,10	£86
PSXSR8SA	Intel® SAS Software RAID Activation Key - 8 Port - 0,1,10	£45
PSXSR8A5	Intel® SAS Software RAID Activation Key - 8 Port - 0,1,5,10	£99
PSXSR8HT	Intel® SATA Hardware RAID with 512MB Cache - 8 Port - 0,1,10,5,50,6,60	£324
PSXSR4HA	Intel® SAS Hardware RAID with 1GB Cache - 4 Port - 0,1,10,5,50,6,60	£279
PSXSR8HA	Intel® SAS Hardware RAID with 1GB Cache - 8 Port - 0,1,10,5,50,6,60	£373

Find out about Server Warranty, Services & Consultancy from Viglen?

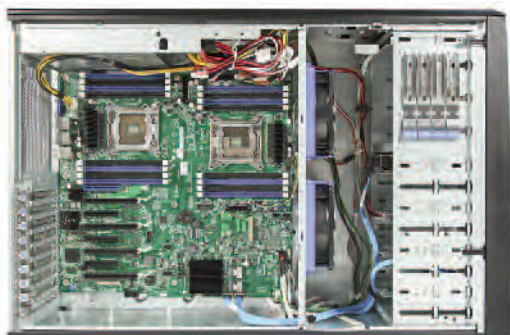
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please call us on **01727 201 815** or email servicesales@viglen.co.uk

IX5600 Departmental Server



The IX5600 is Viglen's most powerful dual processor server and is ideal for business-critical databases, file servers and virtualisation infrastructures. The chassis can be rack-mounted with a conversion kit (measuring 4U) and ships power redundant ready in a 1+1 configuration. The IX5600 features tool-less hot-swap drive bays, power supply's and optional upgrade fans for simplified maintenance, lower service and support costs. Flexible storage configurations allow the chassis to house up to ten SATA/SAS drive bays and a choice of SAS RAID module upgrades.



Intel® 4U Server Rack/Tower Chassis	Integrated SATA controller (Optional RAID upgrades available)
Intel® C600-A High Performance Server Chipset	Eight PCI Express Slots
Single Quad Core Intel® Xeon® E5-2603v2 1.80GHz 10MB 6.40GT / sec	Integrated Quad Intel® Gigabit Ethernet
4GB Registered DDR3 1666MHz with Sixteen DIMM sockets for up to 512GB memory	750W PSU with Redundant 1+1
Up To Twenty Four 2.5" Hot-Swap Hard drive bays (Eight Supplied as standard)	Intel® System Management Software
Up to Three 5.25" Peripheral Bays	3 Years On-Site Next Business Day Warranty

Order Code: **SERVERS2**

Pedestal Server from **£1,475**

IX5600 Departmental Server Processor Upgrade Options

See key below for abbreviations

Order Code	Description	TB	Watts	Price
UAXQZ609	Upgrade to Single Intel® Xeon® Processor Quad Core E5-2609v2, 2.50Ghz with 10MB and 6.4 GT/sec QPI	-	80W	£75
UAXQZ620	Upgrade to Single Intel® Xeon® Processor Six Core E5-2620v2 2.10Ghz with 15MB and 7.2 GT/sec QPI	✓	80W	£159
UAXQZ630	Upgrade to Single Intel® Xeon® Processor Six Core E5-2630v2 2.60Ghz with 15MB and 7.2 GT/sec QPI	✓	80W	£321
UAXQZ650	Upgrade to Single Intel® Xeon® Processor Eight Core E5-2650v2 2.60Ghz with 20MB and 8.0 GT/sec QPI	✓	95W	£755
UAXQZ670	Upgrade to Single Intel® Xeon® Processor Ten Core E5-2670v2 2.50Ghz with 25MB and 8.0 GT/sec QPI	✓	115W	£1057
U2XQZ603	Upgrade to Two Intel® Xeon® Processor Quad Core E5-2603v2, 1.80Ghz with 10MB and 6.4 GT/sec QPI	-	160W	£162
U2XQZ609	Upgrade to Two Intel® Xeon® Processor Quad Core E5-2609v2, 2.50Ghz with 10MB and 6.4 GT/sec QPI	-	160W	£309
U2XQZ620	Upgrade to Two Intel® Xeon® Processor Six Core E5-2620v2 2.10Ghz with 15MB and 7.2 GT/sec QPI	✓	160W	£480
U2XQZ630	Upgrade to Two Intel® Xeon® Processor Six Core E5-2630v2 2.60Ghz with 15MB and 7.2 GT/sec QPI	✓	160W	£805
U2XQZ650	Upgrade to Two Intel® Xeon® Processor Eight Core E5-2650v2 2.60Ghz with 20MB and 8.0 GT/sec QPI	✓	190W	£1673
U2XQZ670	Upgrade to Two Intel® Xeon® Processor Ten Core E5-2670v2 2.50Ghz with 25MB and 8.0 GT/sec QPI	✓	230W	£2277

TB = Intel® Turbo Boost Technology - Boosts performance for specific workloads by increasing processor frequency

IX5600 Departmental Server Memory Upgrade Options

Single CPU Memory Upgrade Options

Order Code	Description	Price
8GB(24B2)	Upgrade to 8GB DDR3 1666MHz Registered DIMM (2 x 4GB)	£35
16GB(24B4)	Upgrade to 16GB DDR3 1666MHz Registered DIMM (4 x 4GB)	£110
32GB(24B8)	Upgrade to 32GB DDR3 1666MHz Registered DIMM (8 x 4GB)	£210
64GB(24B8)	Upgrade to 64GB DDR3 1666MHz Registered DIMM (8 x 8GB)	£465

Dual CPU Memory Upgrade Options

Order Code	Description	Price
8GB(24B4)	Upgrade to 8GB DDR3 1666MHz Registered DIMM (4 x 2GB)	£45
16GB(24B4)	Upgrade to 16GB DDR3 1666MHz Registered DIMM (4 x 4GB)	£110
32GB(24B8)	Upgrade to 32GB DDR3 1666MHz Registered DIMM (8 x 4GB)	£210
64GB(24B8)	Upgrade to 64GB DDR3 1666MHz Registered DIMM (8 x 8GB)	£465

IX5600 Departmental Server Upgrade Options

PSX5HSN5	IX5600 4 Bay SATA hot-swap non-expanded, Hard drive cage	£53
PSX5HSO6	IX5600 6 Bay SATA/SAS hot-swap, expander Hard drive cage	£85
PSX5HSO5	IX5600 4 Bay SATA/SAS hot-swap expander, Hard drive cage	£67
PSXSR161	RAID Activation Key to enable SAS/SATA Software RAID 5 can also be use with PSXS5SA4	£49
PSXS5SA4	IX5600 software SAS Module provides entry-level RAID 0, 1, 10	£69
PSXS5SA4H	IX5600 hardware SATA/SAS Module RAID 0, 1, 5 and 6 with 128 MB Cache	£212
PDCRSR09	RAID Smart Battery Backup Module for PSXS5SA4H	£113
PAFN1X60	IX5600 Hot-Swap Fan kit fan upgrade kit	£67
PSXSRMU3	Intel® Remote Management Module 3 for IX5600	£42
PSXSC53B	IX5600 Pedestal to rack conversion kit	£70
PSXSC53D	IX5600 Rack Mode Cable Management Arm. Requires PSXSC53B	£53

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The DL6120 Series Storage Array



10TB SATA RAID 6 - 1Gb iSCSI connected
from **£6,999**



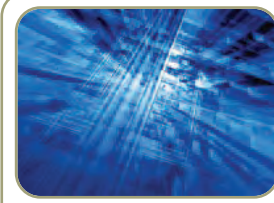
Support for SATA and SAS Hard Disks from 7,200rpm to 15,000rpm Supports SSD



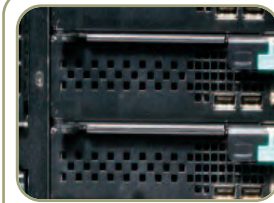
Choice of 8 x 1Gb or 2 x 10Gb iSCSI Connectivity



Expandable using SAS JBOD modules



Hot-Swap, Redundant Modular Controllers and Power Supplies



3.5" and 2.5" Disk Trays available

DL6120 Series



Hitachi HUS-110



8 x 8Gb Fibre and 4 x 1Gb iSCSI Ports



Choice of Hard Disks



BOS-M Software and 3 Year Maintenance

HUS-110

Bundle 1 7 x 3TB Nearline SAS 7,200rpm Drives **£9,879**

Bundle 2 12 x 3TB Nearline SAS 7,200rpm Drives **£15,219**

Bundle 3 24 x 900GB SAS 10Krpm Drives **£18,265**

Bundle 4 2 Trays:
7 x 3TB Nearline SAS 7,200rpm Drives
12 x 900GB SAS 10Krpm Drives **£19,925**



Server Accessories - RAID & Fibre Cards

Viglen offer a range of expandability and connectivity options for any infrastructure requirements such as virtualisation or storage. We have partnered with Adaptec to bring you Unified Serial controller cards with intelligent power management to reduce power consumption as much as 70% without comprising performance. QLogic HBAs offer best-in-class SAN performance and functionality for all your fibre connectivity needs.

Fibre Card Options

Order Code	Description	X1300	IX3100	IX3300R	IX3600R	IX3320RS	IX3620RS	IX5600	Price
PDCFCQ03	Qlogic QLA2460 4Gb Single Port Fibre Channel HBA, PCI-X 266MHz, LC multi-mode optic	✓	✓	✓	✓	✓	✓	✓	£591
PDCFCQ05	Qlogic QLA2462 4Gb Dual Port Fibre Channel HBA, PCI-X 266MHz, LC multi-mode optic	✓	✓	✓	✓	✓	✓	✓	£905
PDCFCQ06	Qlogic QLE2460 4Gb Single Port Fibre Channel HBA, x4 PCIe, LC multi-mode optic	-	✓	✓	✓	✓	✓	✓	£669
PDCFCQ04	Qlogic QLE2462 4Gb Dual Port Fibre Channel HBA, x4 PCIe, LC multi-mode optic	-	✓	✓	✓	✓	✓	✓	£1,025
PDCFCQ07	Qlogic QLE2464 4Gb Quad Port Fibre Channel HBA, x8 PCIe, LC multi-mode optic	-	✓	✓	✓	✓	✓	✓	£1,283
PDCFCQ08	Qlogic QLE2560 8Gb Single Port Fibre Channel HBA, x8 PCIe, LC multi-mode optic	-	✓	✓	✓	✓	✓	✓	£735
PDCFCQ09	Qlogic QLE2562 8Gb Dual Port Fibre Channel HBA, x8 PCIe, LC multi-mode optic	-	✓	✓	✓	✓	✓	✓	£949

Adaptec Unified RAID Controller Cards

Order Code	Description	X1300	IX3100	IX3300R	IX3600R	IX3320RS	IX3620RS	IX5600	Price
PDCRA140	Adaptec® 1405, SAS, 4 Internal ports, HBA, Suitable for Internal devices requiring no RAID	✓	✓	✓	✓	✓	✓	✓	£120
PDCRA104	Adaptec® 1045, SAS, 4 External ports, HBA Suitable for External devices requiring no RAID	✓	✓	✓	✓	✓	✓	✓	£120
PDCRS345	Adaptec® 3405 RAID Controller, 4 Internal ports, PCIe, 128MB Cache	✓	✓	✓	✓	-	-	✓	£255
PDCRS385	Adaptec® 3805 RAID Controller, 8 Internal ports, PCIe, 128MB Cache	✓	✓	✓	✓	-	-	✓	£315
PDCRS386	Adaptec® 3805 RAID Controller, 8 Internal ports, PCIe, 256MB Cache	✓	✓	-	✓	-	-	✓	£379
PDCRS540	Adaptec® 5405 RAID Controller 4 Internal ports, PCIe, Low Profile, 256MB Cache	✓	✓	✓	✓	-	-	✓	£215
PDCRS544	Adaptec® 5445 RAID Controller 4 Internal/4 External ports, PCIe, Low Profile, 256MB Cache	-	✓	✓	✓	-	-	✓	£499
PDCRS580	Adaptec® 5805 RAID Controller 8 Internal ports, PCIe, Low Profile, 512MB Cache	-	✓	-	✓	-	-	✓	£355
PDCRS508	Adaptec® 5085 RAID Controller 8 External ports, PCIe, Low Profile, 512MB Cache	-	✓	-	✓	✓	✓	✓	£625
PDCBB800	Adaptec® Battery Module 800 - Supported on Series 3 and 5 RAID Cards	-	-	-	-	-	-	-	£85

Adaptec Zero-Maintenance Cache Protection RAID controller Cards

Order Code	Description	X1300	IX3100	IX3300R	IX3600R	IX3320RS	IX3620RS	IX5600	Price
PDCRS40Z	Adaptec® 5405Z RAID Controller 4 port internal, PCIe, LP, 512MB	✓	✓	✓	✓	-	-	✓	£469
PDCRS80Z	Adaptec® 5805Z RAID Controller 8 port internal, PCIe, LP, 512MB	-	✓	-	✓	-	-	✓	£589
PDCRS44Z	Adaptec® 5445Z RAID Controller 4 port int, 4 port ext, PCIe, LP, 512MB	✓	✓	✓	✓	-	-	✓	£669

Network Interface Cards

Intel® Gigabit ET Server Adapters: reliable performance, optimised for virtualisation

Built with the Intel® 82576 Gigabit Ethernet Controller, the new Intel® Gigabit ET Server Adapters showcase the next evolution in GbE networking features for the enterprise network and data center. Features include security, support for multi-core processors, and optimisation for server virtualisation. This quad-port copper adapter is capable of 100m transmissions on CAT5e cable.

- High-performing, 10/100/1000 Ethernet connection
- Reliable and proven Gigabit Ethernet technology from Intel® Corporation
- Scalable PCI Express interface provides dedicated I/O bandwidth for I/O-intensive networking applications
- Optimised for virtualised environments
- Flexibility with iSCSI Boot and choice of dual- and quad-port adapters in both fibre and copper



Order Code	Description	X1300	IX3100	IX3300R	IX3600R	IX3320RS	IX3620RS	IX5600	Price
CNCEP1PT	Intel® Pro/1000PT Gigabit Server Adapter PCIe (1000Base-T Copper RJ45)	✓	✓	✓	✓	✓	✓	✓	£58
CNCEP2ET	Intel® Gigabit ET Dual Port Adaptor PCIe (1000Base-T Copper RJ45)	✓	✓	✓	✓	✓	✓	✓	£99
CNCEP4ET	Intel® Gigabit ET Quad Port Server Adapter PCIe (1000Base-T Copper RJ45)	✓	✓	✓	✓	✓	✓	✓	£259
CNCEP1PF	Intel® Pro/1000 PF Fibre Server Adapter PCIe (1000Base-SX)	✓	✓	✓	✓	✓	✓	✓	£365
CNCEP2PF	Intel® Pro/1000 PF Dual Port Fibre Server Adapter PCIe (1000Base-SX)	✓	✓	✓	✓	✓	✓	✓	£535
CNCEP2EF	Intel® Gigabit EF Dual Port Adaptor PCIe (1000Base-SX Fibre LC)	✓	✓	✓	✓	✓	✓	✓	£484

Server Accessories - Hard Drives & Storage

Viglen offer Enterprise SATA and SAS to meet your disk storage requirements in 3.5" and 2.5" Small Form Factor variations. For larger capacities without compromising enterprise performance and achieving a cost effective solution choose SATA. If you are looking for enterprise performance and reliability choose SAS with speeds of up to 15,000 RPM for rapid data access.

Enterprise SATA Hard Disk Drives

Order Code	Description	IX1300	IX3100	IX3300R	IX3600R	IX3320RS	IX3620RS	IX5600	Price
DHDA050R	Western Digital RAID Edition 500GB 3.5" Form Factor 7,200RPM SATA HDD	✓	✓	✓	✓	-	-	-	£62
DHDE01R4	Western Digital RAID Edition 1.0TB 3.5" Form Factor 7,200RPM SATA HDD	✓	✓	✓	✓	-	-	-	£69
DHDE02R4	Western Digital RAID Edition 2.0TB, 3.5" Form Factor 7,200RPM SATA HDD	✓	✓	✓	✓	-	-	-	£109
DHDESC02	Seagate Enterprise Class 250GB 2.5" Small form factor 7,200RPM SATA HDD	-	-	-	-	✓	✓	✓	£85
DHDESC05	Seagate Enterprise Class 500GB 2.5" Small form factor 7,200RPM SATA HDD	-	-	-	-	✓	✓	✓	£129
DHDESC10	Seagate Enterprise Class 1TB 2.5" Small form factor 7,200RPM SATA HDD	-	-	-	-	✓	✓	✓	£175

Enterprise SAS Hard Disk Drives

Order Code	Description	IX1300	IX3100	IX3300R	IX3600R	IX3320RS	IX3620RS	IX5600	Price
DHDS3003	300GB 3.5" Form factor SAS 10,000 RPM HDD	✓	✓	✓	✓	-	-	-	£170
DHDS4503	450GB 3.5" Form factor SAS 10,000 RPM HDD	✓	✓	✓	✓	-	-	-	£219
DHDS6003	600GB 3.5" Form factor SAS 10,000 RPM HDD	✓	✓	✓	✓	-	-	-	£309
DHDS3002	300GB 2.5" Small form factor SAS 10,000RPM HDD	-	-	-	-	✓	✓	✓	£165
DHDS4502	450GB 2.5" Small form factor SAS 10,000RPM HDD	-	-	-	-	✓	✓	✓	£205
DHDS6002	600GB 2.5" Small form factor SAS 10,000RPM HDD	-	-	-	-	✓	✓	✓	£279

Solid State Drives

The Intel® SATA Solid-State Drive offers outstanding performance and reliability, delivering the highest IOPS per watt for servers and storage. There are no rotating platters, moving heads, unnecessary spin up time or positional seek time that can slow down storage. These Intel® drives also feature low write amplification and a unique wear-leveling design for higher reliability, meaning Intel® drives not only perform better – they last longer.

Order Code	Description	IX1300	IX3100	IX3300R	IX3600R	IX3320RS	IX3620RS	IX5600	Price
DSDB3100	Intel® SSD DC S3700 Series 100GB 2.5" Small form factor SATA SSD	-	-	-	-	✓	✓	✓	£175
DSDB3200	Intel® SSD DC S3700 Series 200GB 2.5" Small form factor SATA SSD	-	-	-	-	✓	✓	✓	£345
DSDB3400	Intel® SSD DC S3700 Series 400GB 2.5" Small form factor SATA SSD	-	-	-	-	✓	✓	✓	£685
DSDB3800	Intel® SSD DC S3700 Series 800GB 2.5" Small form factor SATA SSD	-	-	-	-	✓	✓	✓	£1,369

Viglen VigStor SAS JBOD Enclosure Range

Order Code: **JBODS**

The Viglen VigStor SAS JBOD enclosures allow you to seamlessly expand your existing server-based storage, by attaching to the external 4-lane SAS port on your server. Support for both Enterprise Class SATA and SAS Hard Disks and a range of solutions for both 2.5" and 3.5" disks in 1U, 2U or 3U form factors, offers the flexibility to allow you to match your storage expansion to your capacity, performance and space requirements. Redundant power and redundant I/O module options ensure maximum availability for critical data. Massive scalability can be achieved by Daisy-Chaining VigStor JBODs together.

V-Stor VS1230

- ◆ 2U Form Factor
- ◆ 12, 3.5" Drive Bays for Enterprise SATA or SAS Hard Disks



V-Stor VS1330

- ◆ 3U Form Factor
- ◆ 16, 3.5" Drive Bays for Enterprise SATA or SAS Hard Disks



To view full specs, please visit www.viglen.co.uk/StorageGroup2

For more information please contact Viglen Storage Group: email: vsg@viglen.co.uk or telephone: 01727 201 800

Order Code	Description	Price
PSXJB112	Viglen Vigstor VS1120 1U, SATA/ SAS, 2.5" 10 bay, Dual 300W PSU	£1,266
PSXJBS1A	Viglen Vigstor VS1120 Expander Module for Redundancy	£260
PSXJB122	Viglen Vigstor VS1220 2U, SATA/ SAS, 2.5" 24 bay, Dual 350W PSU	£1,540
PSXJBS2A	Viglen Vigstor VS1220 Additional SAS Expander Module for Redundancy	£369
PSXJB212	Viglen Vigstor VS1230 2U, SATA/ SAS, 3.5" 12 bay, Dual 460W PSU	£1,342
PSXJBS2E	Viglen Vigstor VS1230 Expander Module for Redundancy	£296
PSXJBS213	Viglen Vigstor VS1330 3U, SATA/ SAS, 3.5" 16 bay, Dual 460W PSU	£1,441
PSXJBS3E	Viglen Vigstor VS1330 Additional SAS Expander Module for Redundancy	£329
PSXSASML	External SAS Multilane Cable - 2x SFF-8088, 0.5m	£28
PSXSASM2	External SAS Multilane Cable - SFF-8470 to SFF-8088, 0.5m	£25
PSXJBFSR	Friction Slider Rails for VS1230 and VS1330 JBODs	£34

Server Accessories - Backup

Data is almost certainly the most valuable asset that you have today, and therefore making sure that this data is safe should be one of your highest priorities. To help you achieve this, Viglen offers a range of tape drives from the best manufacturers in the world. Pricing below is for internal backup drives, although most are also available as external units. Where we provide two capacity figures, the first number is native capacity, the second is the maximum achievable with compression (in Gigabytes). We also offer a full range of autoloaders and tape libraries. The Viglen Storage Group can advise on the right technology and practice for your backup strategy.

Backup Options									
Order Code	Description	IX1300	IX3100	IX3300R	IX3600R	IX3320RS	IX3620RS	IX5600	Price
DTDFNRD1	Tandberg RDX Internal drive, black, SATA interface, Cartridge not included	✓	✓	-	-	-	-	✓	£85
DTDFNR1U	Tandberg RDX Internal drive, black, USB interface, Cartridge not included	✓	✓	-	-	-	-	✓	£85
DTDFNRE1	Tandberg RDX External drive, black, USB, Cartridge not included	✓	✓	✓	✓	✓	✓	✓	£92
DTDTL5A1	Tandberg LTO-5, 1.5TB/3.0TB, HH - Internal drive, black, SAS	✓	✓	-	-	-	-	✓	£1,199
DTDTL5SE	Tandberg LTO-5, 1.5TB/3.0TB, HH - External drive, black, SAS	✓	✓	✓	✓	✓	✓	✓	£1,269
DTDLS52	Tandberg StorageLibrary T24, 12 Slots, LTO-5 HH SAS, 18TB/ 36TB	✓	✓	✓	✓	✓	✓	✓	£2,269
DTDLS53	Tandberg StorageLibrary T24, 24 Slots, LTO-5 HH SAS, 36TB/ 72TB	✓	✓	✓	✓	✓	✓	✓	£3,029

Note: Please ensure your IX server includes an optional SCSI or SAS adaptor. If your server is configured to run RAID from the onboard controller, you will require a dedicated controller for the tape backup device. Data and cleaning media is available for all of the backup devices listed above.

Backup Media Options		
Order Code	Description	Price
PASMR500	Tandberg RDX 500GB Disk Based Cartridge	£85
PASMR10T	Tandberg RDX 1TB Disk Based Cartridge	£139
PASMR15T	Tandberg RDX 1.5TB Disk Based Cartridge	£189
PASM4LIT	Tandberg LTO-5 1.5GB/3.0TB Data Tape Cartridge	£29
PASMLTOC	LTO Tape Cleaning Cartridge - Universal	£35

Smarter Storage for Smarter Businesses

TANDBERG DATA
Securing your Information

Tandberg Data is a leading global supplier of data protection solutions. Tandberg Data offers a wide selection of secondary storage solutions, ranging from disk-based appliances, such as the RDX® QuikStor™, Tandberg DPS2000 NAS™ and the AccuVault, to automated tape solutions like the StorageLoader and StorageLibrary Series.

Tandberg Data backup and data protection solutions are designed to meet the growing storage requirements of small to medium businesses with scalability, reliability, performance and security features that ensure cost effective operation and long-term investment

All solutions are supported through a worldwide service and support network, recognised globally for its outstanding levels of service. In addition to the standard warranty and support offerings, on-site service upgrades provide Tandberg Data customers with further peace of mind.

www.tandbergdata.com/emea



LTO-5 Tape Drives Now Available



Cartridge capacities from 160GB to 1TB



LTO-5 Automation Solutions Now Available

Server Accessories - UPS and Rack Enclosures

Every server should be connected to an Uninterruptible Power Supply (UPS). The easiest way to corrupt individual files - or entire file systems - is to flick the power off. A UPS, with its battery and power conditioning circuitry will protect your server from power failure. If a power cut lasts beyond the life of the battery, the UPS will initiate a 'graceful' shutdown, preventing file corruption and allowing for a rapid restart when power is restored.

Uninterruptible Power Supplies (UPS)

Order Code	Description	Price
PPUPM075	APC Smart-UPS 750 (500 Watts) Pedestal	£229
PPUPM100	APC Smart-UPS 1000 (670 Watts) Pedestal	£329
PPUPM150	APC Smart-UPS 1500 (980 Watts) Pedestal	£449
PPUPM221	APC Smart-UPS 2200 (1600 Watts) Pedestal	£675
PPUPM301	APC Smart-UPS 3000 (2700 Watts) Pedestal	£1,035
PPUPM72R	APC Smart-UPS 750 (480 Watts) 2U Rackmount	£335
PPUPM1R2	APC Smart-UPS 1000 (670 Watts) 2U Rackmount	£455
PPUPM15R	APC Smart-UPS 1500 (980 Watts) 2U Rackmount	£569
PPUPM23R	APC Smart-UPS 2200 (1980 Watts) 2U Rackmount	£949
PPUPM32R	APC Smart-UPS 3000 (2250 Watts) 2U Rackmount	£1,219
PPUPS3XL	APC Smart-UPS XL 3000VA (2700Watts) Pedestal	£1,185
PPUPS3XR	APC Smart-UPS XL 3000VA (2700 Watts) 3U Rack Mount	£1,355

UPS Accessories

Order Code	Description	Price
PPUPSMC1	APC UPS Network Management Card	£169
PPUPSMC3	APC UPS Network Management Card with Environmental Monitoring	£275
PPUPSMC4	APC Temperature and Humidity Sensor - AP9512THBLK	£75
PPUPSXP1	APC UPS Interface Expander card - serial	£85

APC are the market leaders in UPS. Please contact your Viglen Account Manager for other APC products and DataCentre products.

UPS Power Cables

Order Code	Description	Price
PCPBM005	Power Cable IEC 320-C13 to IEC 320-C14 0.5 M	£2
PCPBM01A	Power Cable IEC 320-C13 to IEC 320-C14 1.0 M	£3
PCPBM010	Power Cable IEC 320-C13 to IEC 320-C14 1.8 M	£4
PCPBM030	Power Cable IEC 320-C13 to IEC 320-C14 3.0 M	£6

Viglen Server Rack Cabinets

Viglen have partnered with Knurr to develop and produce a versatile, high-grade server rack range that can also be tailored to your needs. Our rack cabinets have a unique aluminium extrusion, sturdy weight bearing (with strengthening options up to 1500KG), simple buying installation via full height flushed kits and clever cable management with velcro cable trays.

- Available heights 42U and 27U
- Available depths 1000mm and 1200mm
- Available widths 600mm and 800mm
- Fully assembled aluminium extruded frame.
- Multi-vendor equipment compatibility
- Protective grounding provisions
- 85% perforation level increasing airflow circulation
- Sturdy 500KG Weight Bearing with strengthening options up to 1500KG

A Standard Server Rack Comprises of:

- 'U' height marker strips on front and rear
- 2x Side panels
- Front bowed mesh door
- Rear mesh door
- Top cover
- Velcro cable trays
- Levelling feet
- Transit castors



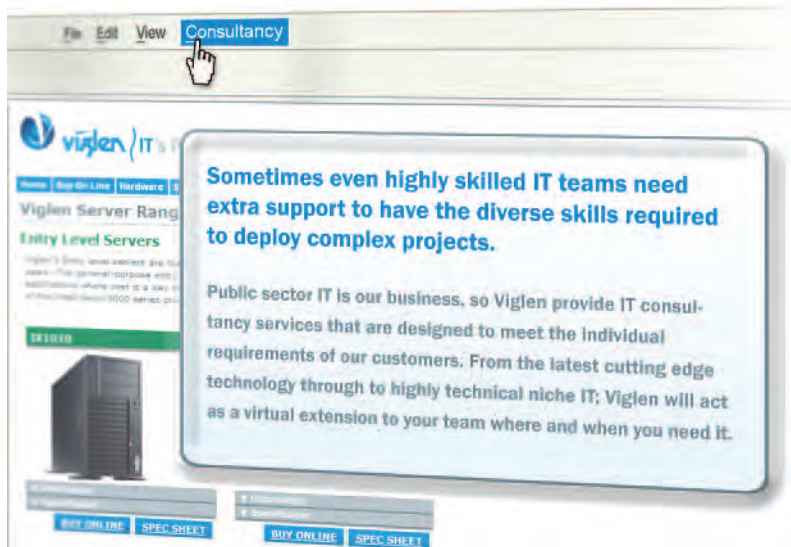
Server Warranty & Services

At Viglen we understand that your investment is critical, so we've improved our server warranty cover. Viglen are now offering longer periods, rapid responses, and balanced value added services. We're certain our experienced, professional services team will bridge the gap between your in-house resources and your support expectations. Viglen operates a strong and effective support infrastructure which has developed into a proactive knowledge sharing service. Our ISO/IEC 20000 certification, demonstrates our commitment to IT service quality, giving IT Managers the peace of mind that they are covered with a solid foundation of services.

Warranty options	Level 1 (Basic cover)			Level 2 (Assured cover)			Level 3 (Guardian cover)		
	For systems with less stringent support needs requiring coverage during normal working hours.			A balanced support service adding extended availability, with a swift response.			For more critical environments our engineers are ready 24 hours, 7 days a week and 365 days a year.		
Onsite Engineer	✓			✓			✓		
Remote Access Assistance	X			✓			✓		
Online Incident Logging	X			✓			✓		
Dedicated Support Number	X			✓			✓		
Active Server Monitoring ²	X			X			✓		
Availability	09:00 – 17:30 Mon to Fri			08:00 – 18:00 Mon to Fri			24 x 7 ³		
Response	Next Business Day ¹			4 Hour ¹			4 Hour		
	Base	Upgrade to		Upgrade to			Upgrade to		
Period or service	3 Years	4 Years	5 Years	3 Years	4 Years	5 Years	3 Years	4 Years	5 Years
Entry	Basic Warranty Included	£71	£178	£249	£355	£533	£373	£533	£800
Workgroup		£177	£426	£426	£711	£1,066	£640	£1,066	£1,600
Departmental		£320	£676	£711	£1,280	£1,921	£1,067	£1,921	£2,881
Vigstor JBODs		£177	£426	£426	£711	£1,066	£640	£1,066	£1,600

1. Excluding bank holidays.
2. Active Server monitoring is subject to server configuration and requires purchase of a remote management device
3. Subject to geographical area.

viglen IT's Consultancy



To find out more about our consultancy services please call us on **01727 201 815** or email **servicesales@viglen.co.uk**

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