

August 2016



# Buyers' Guide

## National Framework for Workstation Client Devices

A collaborative  
contract placed  
on behalf of the  
Scottish Public Sector  
by Scottish Procurement



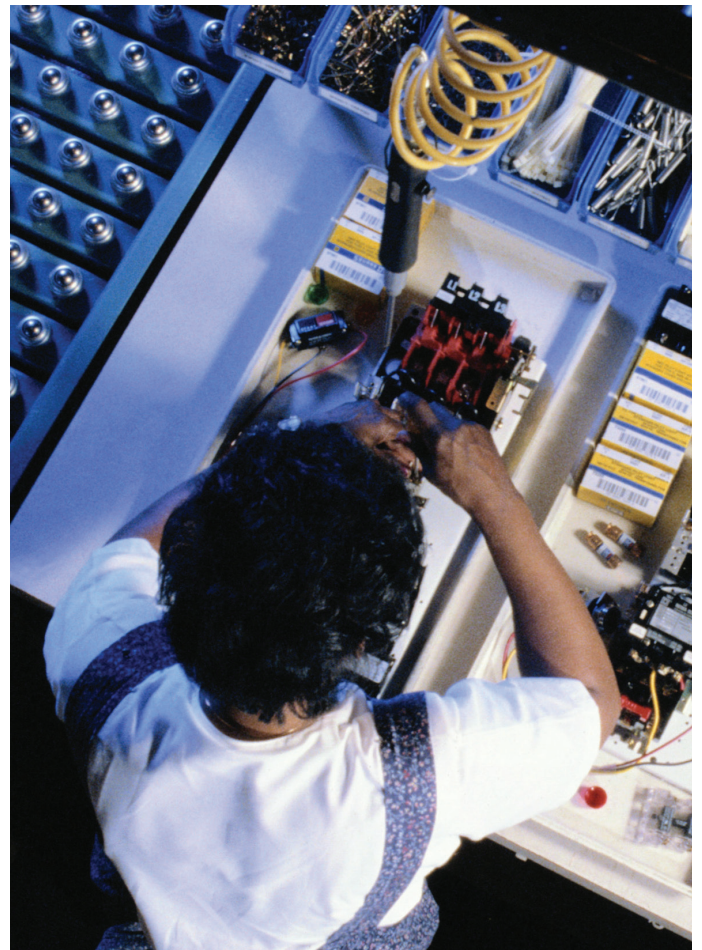
We are XMA.

## We are XMA.

We deliver innovative IT solutions that enhance how people learn, teach, govern, deliver healthcare and do business. We are a team of over 250 specialists, based across the UK who bring together over 30 years of experience, world class vendor partnerships and broad service delivery capabilities on the ground and in the cloud.

Part of an independently owned British group, we are based in Nottingham, Reading, Halifax, Glasgow, Cwmbran and London. We have national reach and a local touch. Our UK-based data centre and ISO:27001 accreditation means we can host your data, applications and infrastructure in the cloud, securely.

We are a compliant route to purchase, with presence on local and national frameworks for hardware supply and services. Our partners are the biggest names in computing, infrastructure and print. We take their products and build, deliver and maintain solutions that work for you.



## About the Framework

XMA was awarded The Scottish Government National Framework for Workstation Client Devices in March 2016. The framework enables public sector organisations in Scotland to purchase from the enclosed range of Workstation Devices.

Buyers are reminded of the obligations contained in the Procurement Reform (Scotland) Act 2014 in relation to the award of contracts valued equal to or greater than £150,000 including those awarded as a result of a framework call-off/mini competition.

In particular, Buyers should note that in accordance with Section 23(2) the award of contracts must be publicised on the Public Contracts Scotland website and in accordance with Section 35 contracts must be registered in the contracting authority's "contracts register".

This document contains commercially sensitive information and should not be shared (wholly or in part) with any third party unless prior agreement is provided from Scottish Procurement.

## Power of a Workstation, price of a Desktop

With the ThinkStation P310 Tower Workstation, you get the performance and reliability you need for professional results, on a budget you can afford.

This PC features ISV-certified, professional graphics, and Intel Xeon technology. Power and stability for 3D and 2D CAD/CAM, website development, financial back-office operations, and healthcare front office. Increased speed and memory over previous generation. Includes Intel vPro for manageability.



- Windows 7 Pro 64 Bit (pre-installed through downgrade rights in Windows 10 Pro)
- Intel Xeon E3-1225V5 (3.30GHz, 1600MHz, 8MB) Processor (with Integrated Intel HD P530 Graphics supporting up to 3 displays in conjunction with discrete graphics)
- 16GB PC3-12800 DDR3 1600MHz RAM (4 slots for expansion up to 64GB)
- 1TB 7200RPM SATA Drive (supports up to 16TB through 4 x 4TB drives)
- Two PCI Express 3.0 x16 slots (with support for up to two Quadro K1200, or two Quadro K2200 or one Quadro M4000 graphics card)
- Onboard Gigabit Ethernet, Intel I219LM (supports Wake-on-LAN)
- 5 x SATA 6.0Gb/s connectors for optical and disk drives (RAID 0, 1, 5, 10 support)
- DVD ReWriter (with two external and two internal drive bays)
- 3.5mm headphone and microphone jacks, one VGA and two DisplayPort, two USB 2.0 and 6 x USB 3.0, one serial, one ethernet (RJ45), and three analog audio ports
- 3 years NBD On-Site Warranty

Code	Description	Price
30ASS0HF00	Lenovo ThinkCentre P310 MiniTower	£315.00

Upgrade options	Product Code	Price
Upgrade to 32GB RAM	WWS32GBUG	£86.00
Upgrade to 64GB RAM	WWS64GBUG	£217.00
128GB Solid State Drive (in addition to 1TB)	SGFWS128SBSSDUG	£35.00
256GB Solid State Drive (in addition to 1TB)	SGFWS256SBSSDUG	£64.00
512GB Solid State Drive (in addition to 1TB)	SGFWS512SBSSDUG	£138.00
2TB SATA HDD (in addition to 1TB)	SGFWS2TBSATAUG	£56.00
4TB SATA HDD	SGFWS4TBSATAUG	£74.00
1GB Graphics Card (NVIDIA Quadro K420)	SGFWS1GBGRAPHICSUG	£47.00
2GB Graphics Card (NVIDIA Quadro K620)	SGFWS2GBGRAPHICSUG	£50.00
4GB Graphics Card (NVIDIA Quadro K2200)	SGFWS4GBGRAPHICSUG	£162.00
Extended Warranty (3-4YR, NBD, On-Site Warranty)	5WS0E54593	£15.00
Extended Warranty (3-5YR, NBD, On-Site Warranty)	5WS0E54552	£25.00
Defective Media Retention (3YR)	5PS0E54573	£6.00
Extended Warranty + Defective Media Retention (3-4YR, NBD, On-Site Warranty)	5PS0E54583	£17.00
Extended Warranty + Defective Media Retention (3-5YR, NBD, On-Site Warranty)	5PS0E54595	£28.00
Upgrade to Intel Xeon E3-1230 v5	SGFWSXE2-1230UG	£25.00
Upgrade to Intel® Xeon™ E3-1245 v5 Processor	SGFWSXE2-1245UG	£53.00
Upgrade to Intel® Xeon™ E3-1275 v5 Processor	SGFWSXE2-1275UG	£102.00
OS Downgrade to Home Version (Education Only)	SGFWSW7DG	-£17.00

Accessories	Product Code	Price
Wireless Keyboard & Mouse	0A34066	£27.00
Security Lock	57Y4303	£10.00
DisplayPort to DVI-D Adapter	45J7915	£8.00
DisplayPort to HDMI Adapter	0B47395	£9.00
DisplayPort to VGA Adapter	57Y4393	£13.00
Remove Optical Drive	SGFWSOPTDG	-£9.00
Remove Keyboard	SGFWSKBDG	-£5.00
Remove Mouse	SGFWSMOUSEDG	-£1.00

## Power of a Workstation, mobile like a laptop

ThinkPad P50 Mobile Workstation fuses the portability of ThinkPad with the power of a workstation.

This laptop features ISV-certified applications, lightning-fast graphics and processing, and more cutting-edge technology to handle your compute-intensive needs, in a surprisingly thin and light package. Get next-level performance with portability in this 15.6" mobile workstation, perfect for running resource-intensive applications.



- Windows 7 Pro 64 Bit (pre-installed through downgrade rights in Windows 10 Pro)
- Intel Xeon E3-1505V5 (up to 3.70GHz, 8MB) Processor
- 8GB PC3-12800 DDR3 1600MHz RAM
- 1TB 5400RPM SATA Drive
- 15.6" FHD (1920x1080) IPS Non-Touch Display
- 720p HD Camera
- Intel Dual Band Wireless-AC(2x2) 8260, Bluetooth 4.1
- NVIDIA M2000M Graphics
- 4 Cell Li-Polymer Battery 90Wh
- 3 Year NBD On-Site Warranty

Code	Description	Price
20EQS09A00	Lenovo ThinkPad P50	£600.00

Upgrade options	Product Code	Price
Upgrade to 16GB RAM (DDR4 2133MHz ECC SoDIMM)	SGMWS16GBUG	£60.00
Upgrade to 32GB RAM (DDR4 2133MHz ECC SoDIMM)	SGMWS32GBUG	£173.00
Upgrade to 64GB RAM (DDR4 2133MHz ECC SoDIMM)	WWS64GBUG	£287.00
256GB Solid State Drive (Upgrade from 1TB HDD)	SGMWS256SBSSDUG	£23.00
512GB Solid State Drive (Upgrade from 1TB HDD)	SGMWS512SBSSDUG	£90.00
Extended Warranty (3-4YR, NBD, On-Site Warranty)	5WS0E97215	£45.00
Extended Warranty (3-5YR, NBD, On-Site Warranty)	5WS0E97383	£95.00
Defective Media Retention (3YR)	5WS0F15922	£13.00
Extended Warranty + Defective Media Retention (3-4YR, NBD, On-Site Warranty)	5PS0E97410	£58.00
Extended Warranty + Defective Media Retention (3-5YR, NBD, On-Site Warranty)	5PS0E97157	£115.00
OS Downgrade to Home Version (Education Only)	SGMWSW7DG	-£17.00
Upgrade to Intel Xeon E3-1535M v5 vPro / NVIDIA Quadro M2000M 4GB	SGFWSXE2-1535UG	£135.00

Accessories	Product Code	Price
Standard USB Keyboard	73P5255	£13.00
2-Button USB Optical Mouse	06P4069	£5.00
Wireless Keyboard & Mouse	0A34066	£27.00
Power Supply Unit	4X20E50582	£28.00
Carry Case	4X40E77328	£14.00
Backpack	4X40E77329	£18.00
Additional Long Life Battery	4X50K14091	£120.00
Security Lock	57Y4303	£10.00
DisplayPort to DVI-D Adapter	45J7915	£8.00
DisplayPort to HDMI Adapter	0B47395	£9.00
DisplayPort to VGA Adapter	57Y4393	£13.00
USB DVD ReWriter	SGMWSDVDRWUG	£28.00
ThinkPad Workstation Dock	40A50230UK	£125.00



## Graphics Card Upgrades for Power Users

In conjunction with Lenovo's WorkStation specialist team, we have prepared some basic guidelines to help you decide on a configuration to select dependant on the software/applications you are using:

Software	Good	Better	Best
Autodesk AutoCAD	Base P310	Base P310 + Quadro K620	Base + 16GB + Quadro K620
Autodesk Revit	Base P310 + Quadro K620	Base P310 + Quadro K2200	Base P310 + SSD + Quadro K2200
Autodesk 3ds Max	Base P310 + CPU Upgrade + 16GB + K2200	Base P310 + CPU Upgrade + 16GB + SSD + K2200	Base P310 + CPU Upgrade + 32GB + SSD + K2200
Adobe Creative Suite	Base P310 + SSD	Base P310 + 16GB + SSD + K620	Base P310 + 16GB + SSD + K2200
MS Office/Power User	Base P310	Base P310 + SSD	Base + 16GB + SSD

## NVIDIA Quadro K420

### Power Efficient 3D Application Performance



Description	Specification
CUDA Cores	192
GPU Memory	1GB DDR3
Memory Interface	128-bit
Memory Bandwidth	29GB/s
System Interface	PCI Express 2.0 x16
Display Connectors	DVI-D DL + DP 1.2
DisplayPort 1.2	Yes
Warranty	3 years

The NVIDIA Quadro K420 delivers power-efficient 3D application performance and capability. 1GB of DDR3 GPU memory with fast bandwidth enables you to create complex 3D models, and a flexible single-slot and low-profile form factor makes it compatible with even the most space and power-constrained chassis. Plus, an all-new display engine drives up to four displays with DisplayPort 1.2 support for ultra-high resolutions like 3840 x 2160 at 60 Hz with 30-bit color.

Designed and built specifically for professional workstations, NVIDIA Quadro GPUs power more than 200 professional applications across a broad range of industries including manufacturing, media and entertainment, sciences, and energy. Professionals trust them to realize their most ambitious visions— whether its product design, visualization and simulation, or spectacular visual storytelling—and get results to market faster.

## NVIDIA Quadro K620

Impressive Power-Efficient 3D Application Performance



Description	Specification
CUDA Cores	<b>384</b>
GPU Memory	<b>2GB DDR3</b>
Memory Interface	<b>128-bit</b>
Memory Bandwidth	<b>80GB/s</b>
System Interface	<b>PCI Express 2.0 x16</b>
Display Connectors	<b>DVI-I DL + DP 1.2 + DP 1.2</b>
DisplayPort 1.2	<b>Yes</b>
Warranty	<b>3 years</b>

The NVIDIA Quadro K620 offers impressive power-efficient 3D application performance and capability. 2GB of DDR3 GPU memory with fast bandwidth enables you to create large, complex 3D models, and a flexible single-slot and low-profile form factor makes it compatible with even the most space and power-constrained chassis. Plus, an all-new display engine drives up to four displays with DisplayPort 1.2 support for ultra-high resolutions like 3840 x 2160 at 60 Hz with 30-bit color.

Designed and built specifically for professional workstations, NVIDIA Quadro GPUs power more than 200 professional applications across a broad range of industries including manufacturing, media and entertainment, sciences, and energy. Professionals trust them to realize their most ambitious visions— whether its product design, visualization and simulation, or spectacular visual storytelling—and get results to market faster.

## NVIDIA Quadro K2200

Exceptional Power-Efficient 3D Application Performance



Description	Specification
CUDA Cores	<b>1640</b>
GPU Memory	<b>4GB DDR5</b>
Memory Interface	<b>128-bit</b>
Memory Bandwidth	<b>80GB/s</b>
System Interface	<b>PCI Express 2.0 x16</b>
Display Connectors	<b>DVI-D DL + DP 1.2</b>
DisplayPort 1.2	<b>Yes</b>
Warranty	<b>3 years</b>

The NVIDIA Quadro K2200 delivers exceptional power-efficient 3D application performance. 4GB of GDDR5 GPU memory with fast bandwidth enables you to create large, complex models, and a flexible single-slot form factor makes it compatible with even the most space and power-constrained chassis. Plus, an all-new display engine drives up to four displays with DisplayPort 1.2 support for ultra-high resolutions up to 3840 x 2160 at 60 Hz with 30-bit color.

Designed and built specifically for professional workstations, NVIDIA Quadro GPUs power more than 200 professional applications across a broad range of industries including manufacturing, media and entertainment, sciences, and energy. Professionals trust them to realize their most ambitious visions— whether its product design, visualization and simulation, or spectacular visual storytelling—and get results to market faster.



## Helpful Information for Lenovo Workstation Devices



Home page (microsite)  
[www.thinkworkstations.com](http://www.thinkworkstations.com)



Product Specifications  
<http://thinkstation-specs.com>

Product Datasheets  
<http://psref.lenovo.com>



Lenovo Quick Pick Look-Up  
[www.lenovoquickpick.com/usa/home/thinkstation/workstation#](http://www.lenovoquickpick.com/usa/home/thinkstation/workstation#)

Product Comparisons  
<http://thinkstation-specs.com/compatibility-matrix>



ISV Certifications  
<https://www.thinkworkstations.com/isv-certifications>  
[www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)



## Services

XMA can offer a number of services to assist in the deployment of workstation devices into your institution including but not limited to:

Description	Product Code	Price
Imaging	SGWSIMAGE01	£3.00
Asset Tagging	SGWSAT01	£3.00
BIOS Configuration	SGWSBIOS01	£3.00
Installation to Desk	SGWSINSTAL01	£10.00
Bonded Storage (Free of charge for a period of up to 6 months)		£FREE

## Insurance

When purchasing Mobile Workstations outright, XMA can provide options for accidental damage and theft insurance. The cover offered has no excess to pay and covers the device at work, home and even whilst travelling internationally.

## Get Advice and Order

XMA's team in Glasgow can advise you on the devices available under this framework as well as associated accessories and services.

Contact the team by phone or e-mail using the details below.

Call **0845 688 8775** **Monday to Friday, 09.00 - 17.30**

Visit [www.xma.co.uk/scotland](http://www.xma.co.uk/scotland)

Our dedicated ordering portal will be available soon, offering access to pricing, online ordering, order tracking and more. Watch this space.

## Delivery and Returns

Standard items will be delivered within 10 working days. XMA's customer service team can advise you on the status of your order and manage returns.

Contact the team by phone or e-mail using the details below.

Call **0115 846 4656** **Monday to Friday, 09.00 - 17.30**

Email [customer.services@xma.co.uk](mailto:customer.services@xma.co.uk)

## Framework Team

### Framework Account Managers

For advice on which of the framework devices is best for your institution, speak to our Framework Account Managers. This team can also provide help on any accessories and services that you require to go alongside them.

**Scott Langan**

scott.langan@xma.co.uk  
0115 846 4352

**David Warren**

david.warren@xma.co.uk  
0115 846 4217

**Martin Tamburrini**

martin.tamburrini@xma.co.uk  
0115 846 4219

**Mark Walker**

mark.walker@xma.co.uk  
0115 846 4218

### Order Management Specialists

If you have already placed an order and want an update or to make a change, contact our Glasgow based Order Management Specialist.

**Helen Ross**

helen.ross@xma.co.uk  
0115 846 4100

**Ioana Calarasu**

ioana.calarasu@xma.co.uk  
0115 846 4118

### Framework Managers

If you have any issues that you need to escalate, and the Framework Account Managers can't help, then contact the Framework Managers who have overall responsibility for the framework.

**Kenny Macniven**

kenny.macniven@xma.co.uk  
0115 846 4221

## Technical Support and Dead on Arrival (DOA)

Every device offered on the framework includes an enhanced 3 years on-site warranty.

That means if something goes wrong that can't be resolved over the phone, Lenovo will arrange an engineer to come to you to resolve the problem.

If a problem develops with a device purchased through the framework, call 01483 407857, ensuring you have the device in front of you and the serial number to hand. You may be asked to perform some 1st level troubleshooting that could get you back up and running immediately, but Lenovo's enhanced warranty includes:

- Bespoke and Direct Line for Scottish Procurement Customers
- Operating Hours – Monday to Friday 08:00 to 18:00
- Average Answer Time of 1 minute
- To be answered by a Lenovo/IBM trained member of staff, with product knowledge of:
  - o Lenovo ThinkStation P310
  - o Lenovo ThinkPad P50
- Call handler (Technician) will work with customer to diagnose fault
- Call handler (Technician) will attempt a 1st fix (if possible) e.g. BIOS Update
- If 1st Fix unable, Call handler will collect all pertinent data and raise service call
- Lenovo/IBM engineer will then attend customer site and perform necessary reworks
- Call will then be closed.

Alternatively, the warranty can be logged online or call at:

Visit <https://www.managedtechnicalsupportaccess.com/mtsarva/lenovo.html>

Call **01483 407857** Monday to Friday, 08.00 - 18.00

The following details should be used to report any devices that are Dead On Arrival (DOA) i.e. they do not function as expected out of the box, within 30 days of delivery.

Call **0115 918 3540** Monday to Friday, 08.00 - 18.00

If you prefer to e-mail us with details of the problem, use the address below.

Email [customer.services@xma.co.uk](mailto:customer.services@xma.co.uk)

We are XMA.

Ensure you have the most up-to-date framework buyer's guide  
by visiting the framework portal at [www.xma.co.uk/scotland](http://www.xma.co.uk/scotland)

If you have any questions relating to the framework  
contact us on the details below.



Call to **0115 846 4100**

Visit [www.xma.co.uk](http://www.xma.co.uk)

Email [scotlandsales@xma.co.uk](mailto:scotlandsales@xma.co.uk)

Follow us [@WeareXMA](https://www.instagram.com/wearexma)