



Trevor Francis, March 2020

This is information for Grass Valley system designers and customers to specify recommended platforms for GV STRATUS and sQ Server-based systems and associated editing workstations, as listed in the 2020 Price Book.

Grass Valley reserves the right to update these specifications. All users of this document are recommended to re-confirm, especially before placing orders from third-party suppliers.

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PAM Workstations

GV STRATUS High-resolution Workstation

These requirements apply to a PC running the following:

- · The GV STRATUS application with a high-resolution media workflow. This requires access to high-resolution assets.
- The EDIUS Workgroup application with a high-resolution media workflow. This requires access to high-resolution assets.

| Characteristic | Specification |
|--------------------------|--|
| Processor | Recommended: Intel Core i7 4 Core 4 GHz (desktop grade machines) OR Recommended: Intel Xeon E5-2630 Quad Core 2.4 GHz (workstation grade machines) |
| Memory | Minimum: 8 GB RAM Recommended: 16 GB RAM |
| Graphics | Integrated or discrete graphics with Direct 3D 9+ |
| System Drive | 256 GB SSD drive recommended OR 1 TB 7200 rpm hard drive (if SSD not available) |
| Optical Drive | Not required |
| Network | Dual Ethernet 1000 Base-T network interface |
| Operating System | Microsoft Windows 7 SP1 64-bit Microsoft Windows 10 64-bit (on systems with SNFS 6.0.6 installed) |
| Operating System | Note: 64-bit required for EDIUS Workgroup Note: Windows 7 must be used for workstations connecting to existing SAN systems running SNFS 4.7 Windows 10 must be used for workstations connecting to new SAN systems delivered (from late 2018) running SNFS 6.x |
| Microsoft .NET Framework | Version 4.7.1 |

Browser-based Clients

GV STRATUS Web Client

These minimum requirements apply to a device running the GV STRATUS Web client:

| Characteristic | Specification Specification |
|--------------------------|---|
| Web Browser | Recommended: Google Chrome |
| Frame-accurate Streaming | Browser must support webRTC GV STRATUS system must be licensed with GV STRATUS Proxy Streaming Server |

Go! Editor

Minimum requirement for using Go! on a desktop/laptop computer:

| Characteristic | Specification |
|----------------|--|
| Web Browser | Google Chrome |
| CPU | Core i3 — 2 cores (4 with hyper threading turned on) |
| Memory | 4 GB |



Proxy/LBR Workstations

GV STRATUS Low-resolution Client Workstation

These minimum requirements apply to a PC running one or more of the following:

- · The GV STRATUS application with a proxy media workflow
- The GV STRATUS Control Panel application
- The SiteConfig application

| Characteristic | Specification |
|--------------------------|---|
| Processor | Minimum: Intel Core i3 mid-range processors and above |
| Memory | 4 GB RAM (Minimum) |
| Graphics | Direct 3D 9+ support |
| System Drive | Minimum: 1 GB of free space |
| Optical Drive | Not required |
| Network | Single Ethernet 1000 Base-T network interface |
| Operating System | Microsoft Windows 7 SP1 64-bit Microsoft Windows 10 64-bit |
| Microsoft .NET Framework | Version 4.7.1 |
| Web Browser | Recommended: Google Chrome |

GV STRATUS/EDIUS XS Low-resolution Client Workstation

These minimum requirements apply to a PC running the GV STRATUS application and the EDIUS XS application, with a proxy media workflow:

| Characteristic | Specification Specification |
|--------------------------|---|
| Processor | Intel Core i5 4 core processor and above |
| Memory | 8 GB RAM |
| Graphics | Integrated or discrete graphics with Direct 3D 9+ |
| System Drive | Minimum: 80 GB 7200 rpm hard drive Recommended: 128 GB SSD drive or larger |
| Optical Drive | Not required |
| Network | Single Ethernet 1000 Base-T network interface |
| Operating System | Microsoft Windows 7 SP1 64-bit Microsoft Windows 10 64-bit Note: 64-bit required for EDIUS XS |
| Microsoft .NET Framework | Version 4.7.1 |
| Web Browser | Recommended: Google Chrome |



Rio (Broadcast) LBR

These requirements apply to a Rio editor connected to an sQ server and configured for viewing content in LBR/Proxy. It is assumed that for a desktop editor the rendering of new media, including captions, transitions, DVE, keys and local video ingest is minimal. This rendering will use the client PC hardware.

| Characteristic | Recommended Specification |
|------------------|---|
| Processor | Intel Core i7-8700 / 3.2 GHz (or better) |
| Memory | 16 GB RAM (Minimum) |
| Graphics | Graphics (Display) — DirectX 11 compatible display card or better Graphics (Rendering) — CUDA capable GPU — NVIDIA GeForce GTX 1060 (6 GB) or better (separate display card only required if working in dual screen mode) AJA Kona 4 or Kona3G video I/O card (optional) |
| Disk Drive | 1x 240 GB (or better) SATA SSD — System/Audio drive 1x 480 GB (or better) SATA SSD — Video drive |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit |
| Network | 1000 Base-T with Jumbo Frame 9014 packet support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

sQ View, sQ Cut, sQ Play & sQ Record — LBR, v6

These requirements apply to all of these workstations connected to an sQ server and operating with LBR media:

| Characteristic | Recommended Specification |
|------------------|---|
| Processor | Intel Core i5-6400 processor (6M cache, up to 3.30 GHz) |
| Memory | 16 GB dual-channel memory |
| Graphics | Graphics processor with Windows 10 64-bit manufacturer approved WDDM 1.1 driver, Pixel shader 2.0 (or higher) in hardware, and a minimum of 256 MB of video RAM |
| Disk Drive | 1 x 7,200 rpm SATA or SAS disk drive with a minimum of 30 GB available for audio and data partitions* |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit for v6 onwards |
| Network | 1000 Base-T Ethernet |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |
| Form Factor | sQ Record with VTR control requires space for a full-sized PCI Card for the serial I/O |

sQ Cut — HBR or Local Ingest Operations v6

These requirements apply to all of these workstations connected to an sQ server and operating with HBR media and/or allowing local file ingest:

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Intel Core i7-4790 processor (8M cache, up to 4.00 GHz) |
| Memory | 16 GB dual-channel memory |
| Graphics | Graphics processor with Windows 10 64-bit manufacturer approved WDDM 1.1 driver, Pixel shader 2.0 (or higher) in hardware, and a minimum of 256 MB of video RAM |
| Disk Drive | 2x 10k rpm SATA or SAS drives ~100GB or larger — see disk requirements below** |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit for v6 onwards |
| Network | 1000 Base-T with Jumbo Frame 9014 packet support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

^{*} sQ Server workstation software (except sQ Load) requires local storage for audio. It is recommended that this stores on a separate disk for easier management and to prevent file fragmentation. 12 GB of space will provide storage for ~4 hours of 4-channel and ~ 2 hours of 8-channel audio. Where possible, it is suggested that at least 4 hours of storage (4 or 8 track as appropriate) is provided. They all (except sQ Load) require a minimum of 8 GB for installation and log files.

^{**} sQ Server workstation software (except sQ Load) requires a separate partition for local storage of HBR media on sQ Cut and sQ Edit PCs as required. 51 GB provides space for ~1 hour of HD 100 Mbit data and 2 hours of SD IMX or DVCPro 50 data. Video and audio partitions should be placed on separate drives to improve overall performance during playback. They all (except sQ Load) require a minimum of 8 GB for installation and log files.



HBR Editing

EDIUS v9

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Intel Core 2, Intel Core iX CPU, or higher Intel or AMD single core CPU with a 3 GHz processor speed or faster (multiple CPUs or multicore CPUs are recommended) SSSE3 (Supplemental SSE3) compatibility |
| Memory | Minimum 4 GB |
| Graphics | GPU compatible with Direct3D 9.0c and later, and PixelShader Model 3.0 and later For SD/HD editing, 512 MB or more video memory is required. For 4K editing, 2 GB or more video memory is required |
| Disk Drive | To install EDIUS, 6 GB or more hard disk space is required for installation A drive with SATA/7200 rpm or higher is required for videos |
| Sound Card | A sound device that is compliant with WDM is required |
| Operating System | Windows 7 64-bit (Service Pack 1 or later) Windows 8.1 64-bit Windows 10 6-4bit (Version 1607 or later) |
| Network | 1G Ethernet with Jumbo Frame 9014 support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

Rio (Broadcast) HBR

These requirements apply to a Rio editor connected to an sQ server and configured for viewing content in full quality using HD codecs:

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Dual Xeon Silver 4114 (10 Cores, 2.20 GHz, 13.74 L3 Cache) |
| Memory | 64 GB RAM (8x 8 GB, DDR4, REG, ECC, 2400 MHz) |
| Graphics | Graphics (display) — DirectX 11 compatible display card or better Graphics (rendering) — CUDA capable GPU – NVIDIA GeForce GTX 1080 or better (Separate display card only required if working in dual screen mode and/or with 4K media) AJA Kona 4 or Kona 3G video I/O card (optional) |
| Disk Drive | 1x 240 GB (or better) SATA SSD — system/audio drive 1x 480 GB (or better) SATA SSD — video drive |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit |
| Network | 1000 Base-T with Jumbo Frame 9014 packet support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

Qube HBR Editor for UHD/HDR

This product is supplied as a turnkey system only. Please refer to Product Management.

QTube Edit Standard

This product is no longer supported. Please refer to Product Management.

QTube Edit Advanced

This product is no longer supported. Please refer to Product Management.

Marco

This product is no longer supported. Please refer to Product Management.



Qube v6

These requirements apply to a Rio editor connected to an sQ server and configured for viewing content in full quality using HD codecs:

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Dual Intel Xeon Silver 4114 (10 Cores, 2.20 GHz, 13.74 MB L3 cache) |
| Memory | 32 GB (4x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | Display: Quadro P620 Rendering: Quadro P4000 AJA Kona 4 |
| Disk Drive | 1x 300 GB 15,000 rpm hard drive, or 1x 480 GB SSD 1x 600 GB 15,000 rpm hard drive, or 1x 960 GB SSD |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit for v6 and later |
| Network | 1000 Base-T with Jumbo Frame 9014 packet support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

sQ Edit - No Effects v6

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Intel Core i7-4790 Processor (8M cache, up to 4.00 GHz) |
| Memory | 16 GB dual-channel memory |
| Graphics | Graphics processor with Windows 10 64-bit manufacturer approved WDDM 1.1 driver, Pixel shader 2.0 (or higher) in hardware, and a minimum of 256 MB of video RAM |
| Disk Drive | 2x 10k rpm SATA or SAS drives ~100 GB or larger — see disk requirements below* |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit for v6 onwards |
| Network | 1000 Base-T Ethernet with Jumbo Frame 9014 support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

sQ Edit — With Effects v6

| Characteristic | Recommended Specification |
|------------------|---|
| Processor | Intel Core i7-4790 Processor (8M cache, up to 4.00 GHz) |
| Memory | 16 GB dual-channel memory |
| Graphics | Graphics (display) — DirectX 11 compatible display card or better Graphics (rendering) — CUDA capable GPU — NVIDIA GeForce GTX 1060 (6 GB) or better (separate display card only required if working in dual screen mode) |
| Disk Drive | 2x 10k rpm SATA or SAS drives ~100GB or larger — see disk requirements below* |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit for v6 onwards |
| Network | 1000 Base-T Ethernet with Jumbo Frame 9014 support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

^{*} sQ Server workstation software (except sQ Load) requires a separate partition for local storage of HBR media on sQ Cut and sQ Edit PCs as required. 51 GB provides space for ~1 hour of HD 100 Mbit data and 2 hours of SD IMX or DVCPro 50 data. Video and audio partitions should be placed on separate drives to improve overall performance during playback. They all (except sQ Load) require a minimum of 8 GB for installation and log files.



ISA Manager

Can be run on "Medium" generic specification:

| Characteristic | Recommended Specification |
|------------------|---|
| Processor | Dual Intel Xeon Silver 4114 (10 Cores, 2.20 GHz, 13.74 MB L3 cache) |
| Memory | 64 GB (8x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | On-board graphics |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 Standard |
| Network | Dual-port 10 Gigabit Ethernet |
| Display | Standard VGA |
| Power Supply | Dual redundant |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

VM requirement:

| Characteristic | Recommended Specification |
|----------------|--|
| VM vCPU | 8 |
| VM vMemory | 28 GB |
| Network | 1x Virtual NIC connected to 1 GB network |
| vHDD | 120 GB |
| VM Guest OS | Windows 2016 |

ISA Search Service

ISA Search Service is a very lightweight product as far as computer hardware is concerned. We don't usually ship standalone instances of this. It will run on the "Cost-effective" generic platform:

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Single Intel Xeon Bronze 3106 (8 cores, 1.70 GHz, 10.00 MB L3 Cache) |
| Memory | 16 GB (2x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | On-board card |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 |
| Network | Dual-port 10 Gigabit Ethernet with Jumbo Frame support |
| Display | Standard VGA display |
| Power Supplies | Dual redundant |
| Keyboard/Mouse | Not required beyond commissioning |

ISA Search Service is frequently run in a Virtual Machine with the ISA Manager:

| Characteristic | Recommended Specification |
|----------------|--|
| VM vCPU | 4 |
| VM vMemory | 8 GB |
| Network | 1x Virtual NIC connected to 1 GB network |
| vHDD | 120 GB |
| VM Guest OS | Windows 2016 standard |



Other sQ Workstations and System Products

sQ Load v6

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Intel Core i7 (4 cores. Base clock: 2.4 GHz, or greater) minimum, no "Edge Browse" Dual Intel Xeon Gold 6132 (14 cores, 2.60 GHz, 19.25 MB L3 cache) recommended, mandatory for "Edge Browse" |
| Memory | 16 GB Dual-channel minimum, no Edge Browse 64 GB (8x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) required for Edge Browse |
| Graphics | Windows WHQL WDDM 1.1 compatible graphics card |
| Disk Drive | 1x HDD, or SSD 240 GB or greater |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit |
| Network | 1000 Base-T Ethernet with Jumbo Frame 9014 support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

sQ Fileflow Manager

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Single Intel Xeon Bronze 3106 (8 cores, 1.70 GHz, 11.00 MB L3 cache) |
| Memory | 16 GB (2x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | None, use on-board graphics |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 Standard |
| Network | Dual-port 1 Gigabit Ethernet |
| Display | Minimum 1920x1080 resolution |
| Power Supplies | Dual redundant |
| Keyboard/Mouse | Not required beyond commissioning |

VM requirement:

| Characteristic | Recommended Specification |
|----------------|--|
| VM vCPU | 4 |
| VM vMemory | 8 GB |
| Network | 1x Virtual NIC connected to 1 GB network |
| vHDD | 120 GB |
| VM Guest OS | Windows Server 2016 |



sQ Fileflow Cluster Watcher

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Single Intel Xeon Bronze 3106 (8 cores, 1.70 GHz, 11.00 MB L3 Cache) |
| Memory | 16 GB (2x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | None, use on-board graphics |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 Standard |
| Network | Dual-port 1 Gigabit Ethernet |
| Display | Standard VGA display |
| Power Supplies | Dual redundant |
| Keyboard/Mouse | Not required beyond commissioning |

VM requirement:

| Characteristic | Recommended Specification |
|----------------|--|
| VM vCPU | 4 |
| VM vMemory | 8 GB |
| Network | 1x Virtual NIC connected to 1 GB network |
| vHDD | 120 GB |
| VM Guest OS | Windows Server 2016 |

sQ Fileflow Engine

| Characteristic | Recommended Specification |
|------------------|---|
| Processor | Dual Intel Xeon Gold 6132 (14 cores, 2.60 GHz, 19.25 MB L3 Cache) |
| Memory | 64 GB (8x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | None, use on-board graphics |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 Standard |
| Network | Dual-port 10 Gigabit Ethernet with Jumbo Frame support |
| Display | Standard VGA display |
| Power Supplies | Dual redundant |
| Keyboard/Mouse | Not required beyond commissioning |

VM requirement:

| Characteristic | Recommended Specification |
|----------------|--|
| VM vCPU | 14 |
| VM vMemory | 28 GB |
| Network | 1x Virtual NIC connected to 1 GB network |
| vHDD | 120 GB |
| VM Guest OS | Windows Server 2016 |



License Manager

The generic "Cost-effective" option is suitable:

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Single Intel Xeon Bronze 3106 (8 cores, 1.70 GHz, 10.00 MB L3 cache) |
| Memory | 16 GB (2x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | Use on-board graphics |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 |
| Network | Dual-port 10 Gigabit Ethernet |
| Display | 1920x1080 display |
| Power Supplies | Dual redundant 750W recommended |
| Keyboard/Mouse | Standard mouse/keyboard |

VM requirement:

| Characteristic | Recommended Specification |
|----------------|--|
| VM vCPU | 4 |
| VM vMemory | 8 GB |
| Network | 1x Virtual NIC connected to 1 GB network |
| vHDD | 120 GB |
| VM Guest OS | Windows 2016 standard |

Media Transformer (ABR Streaming)

| Characteristic | Recommended Specification |
|------------------|---|
| Processor | Dual Intel Xeon Silver 4110 (8 cores, 2.10 GHz, 11.00 MB L3 cache) |
| Memory | 32 GB (4x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | NVIDIA Quadro P4000 |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 Standard |
| Network | Dual-port 10 Gigabit Ethernet with Jumbo Frames |
| Display | Standard VGA |
| Power Supplies | Dual redundant 750W recommended |
| Keyboard/Mouse | Standard mouse/keyboard |

Media Transformer (Pass-through)

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Dual Intel Xeon Gold 6132 (14 cores, 2.60 GHz, 19.25 MB L3 cache) |
| Memory | 64 GB (8x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | None, use on-board graphics |
| Disk Drive | 2x 240 GB SSDs SATA 3 (6 Gb/s) configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 10 Pro Edition 64-bit |
| Network | Dual-port 10 Gigabit Ethernet with Jumbo Frames |
| Display | Standard VGA |
| Power Supplies | Dual redundant recommended |
| Keyboard/Mouse | Standard mouse/keyboard |



LiveTouch

sQ LiveTouch Desktop Client

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Intel Core i5-8500 (6 cores, 3.0 GHz, 9 MB L3 Cache) |
| Memory | 16 GB (2x 8 GB, DDR4, 2666 MHz |
| Graphics | CUDA capable GPU — NVIDIA Quadro P620, or greater |
| Disk Drive | 500 GB, 7,200 HDD or 240 GB SSD minimum |
| Sound Card | Any Windows 10 compatible card |
| Operating System | Microsoft Windows 10 Pro Edition 64-bit |
| Network | 1000 Base-T Ethernet with Jumbo Frame 9014 support |
| Display | Minimum 1920x1080 resolution |
| Keyboard/Mouse | Windows compatible keyboard and mouse |

MOS Gateway

Use "Cost-effective" generic option on page 12:

| Characteristic | Recommended Specification |
|----------------|--|
| VM vCPU | 4 |
| VM vMemory | 8 GB |
| Network | 1x Virtual NIC connected to 1 GB network |
| vHDD | 120 GB |
| VM Guest OS | Windows 2010 Pro |

Generic PC specifications

These may be used where product specifications specify Fast, Medium or Cost-effective platforms.

Fast

| Characteristic | Recommended Specification |
|------------------|---|
| Processor | Dual Intel Xeon Gold 6132 (14 cores, 2.60 GHz, 19.25 MB L3 cache) |
| Memory | 64 GB (8x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | On-board, or Quadro P620 (product specific) |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 or Windows 10 Pro (product specific) |
| Network | Dual-port 10 Gigabit Ethernet with Jumbo Frame support |
| Display | Standard VGA display |
| Power Supplies | Dual redundant |
| Keyboard/Mouse | Not required beyond commissioning |



Medium

| Characteristic | Recommended Specification |
|------------------|---|
| Processor | Dual Intel Xeon Silver 4114 (10 cores, 2.20 GHz, 13.74 MB L3 cache) |
| Memory | 64 GB (8x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | On-board or Quadro P620 (product specific) |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 or Windows 10 Pro (product specific) |
| Network | Dual-port 10 Gigabit Ethernet with Jumbo Frame support |
| Display | Standard VGA display |
| Power Supplies | Dual redundant |
| Keyboard/Mouse | Not required beyond commissioning |

Cost-effective

| Characteristic | Recommended Specification |
|------------------|--|
| Processor | Single Intel Xeon Bronze 3106 (8 cores, 1.70 GHz, 10.00 MB L3 cache) |
| Memory | 16 GB (2x 8 GB DIMMs, DDR4, 2666 MHz, REG, ECC) |
| Graphics | On-board or Quadro P620 (product specific) |
| Disk Drive | 2x 240 GB SSDs configured as RAID-1 |
| Sound Card | None required |
| Operating System | Windows 2016 or Windows 10 Pro (product specific) |
| Network | Dual-port 10 Gigabit Ethernet with Jumbo Frame support |
| Display | Standard VGA display |
| Power Supplies | Dual redundant |
| Keyboard/Mouse | Not required beyond commissioning |



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