IBM IntelliStation A Pro workstation
featuring AMD64 Architecture and
Dual-Core Technology

Ultimate 32-/64-bit multiprocessor performance

The competitive advantage
Competitive advantage is born of innovation. As the first Tier 1 vendor to introduce the AMD Opteron processor for standards-based workstations, IBM® leads the industry in 32-/64-bit computing with the IntelliStation® A Pro 6217. Building on breakthrough AMD64 architecture, the second-generation A Pro is engineered to deliver the ultimate 64-bit professional workstation performance and visualization for compute-intensive environments.

The standards-based alternative
Bristling with up to 16GB¹ of PC3200 ECC memory, the A Pro is certified² by leading 3D software vendors for the most demanding users, from engineers to molecular chemists, animators to geologists. Take advantage of single and multi-GPU ultra high-performance PCI Express x16 graphics with the NVIDIA Quadro FX 4500 X2. IBM has forged a compelling price/performance alternative to proprietary 64-bit UNIX® workstations, with a straightforward transition from your current 32-bit workflow to next-generation 64-bit applications.

More productive to the core
The A Pro with AMD Direct Connect Architecture is designed to bypass the primary bottleneck of other workstation designs—the front-side bus—opening the processors to a flood of data. It is a highly scalable solution devised to anticipate your future computing needs, helping to deliver real investment protection.

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IBM IntelliStation A Pro dual-socket workstation technical specifications

Processor  Single-core  AMD Opteron Model 250, Model 252, Model 254, Model 256
            Dual-core  AMD Opteron Model 275, Model 280, Model 285

Cache  1MB L2 cache per processor core

Core logic  AMD-8000 series with HyperTransport Technology

Memory (std/max)  2, 4, 8GB/16GB\(^3\) PC3200 ECC DDR SDRAM; 8 slots

Available graphics  Standard features: PCI Express x16, certified OpenGL drivers\(^3\), dual-display capable
                   Multi-GPU, Ultra High Performance: NVIDIA Quadro FX 4500 X2
                   Extreme 3D: NVIDIA Quadro FX 4500
                   High Advanced 3D: NVIDIA Quadro FX 3500
                   Advanced 3D: NVIDIA Quadro FX 1500
                   Performance 2D: NVIDIA Quadro NVS 285

Power supply  530W; 3 temperature-controlled fans

Internal storage\(^1\)\(^4\)  Up to 1TB SATA, 1.2TB Ultra320 SCSI

Controllers  SATA and dual-channel, 64-bit Ultra320 integrated

Slots  PCI Express x16, 64-bit/133 MHz PCI-X, 64-bit/100 MHz PCI-X

Bays (total/open)  (3/2) 3.5" internal, (1/1) 3.5" external, (2/1) 5.25" external

Ports  5 USB 2.0; 2 IEEE 1394; 2 serial; 1 parallel

Operating system (preinstalled)  Microsoft® Windows® XP Professional x64 Edition or Red Hat Enterprise Linux® 4 WS (64-bit), (others supported)

Supported applications  Visit ibm.com/servers/intellistation/pro/isv/index.html

Universal Manageability  Visit ibm.com/servers/reserver/xseries/systems_management/director_4.html

3D pointing device  IBM 3D SpacePilot Input Device (40K9202)

Rack mounting  Rack Kit (09N4300), NetBAY Rack (9306420)

For more information

U.S.  ibm.com/intellistation
Canada  ibm.com/pc/ca/intellistation

\(^1\) GB equals 1,000,000,000 bytes, and TB equals 1,000,000,000,000 bytes when referring to hard disk drive capacity; accessible capacity is less.
\(^2\) Certifications are issued by the supplier of the operating system, device driver or application, and not IBM.
\(^3\) Maximum physical memory is 8GB per processor socket (16GB total) running under select 64-bit Linux distributions and Microsoft Windows XP Professional x64 Edition; addressable capacity is less. Maximum physical memory is 4GB running under Microsoft Windows XP Professional 32-bit operating system; addressable capacity is less.
\(^4\) Maximum internal hard disk and memory capacities may require the replacement of any standard hard drives and/or memory and the population of all hard disk bays and memory slots with the largest currently supported drives available. When referring to variable speed CD-ROMs, CD-Rs, CD-RWs and DVDs, actual playback speed will vary and is often less than the maximum possible.