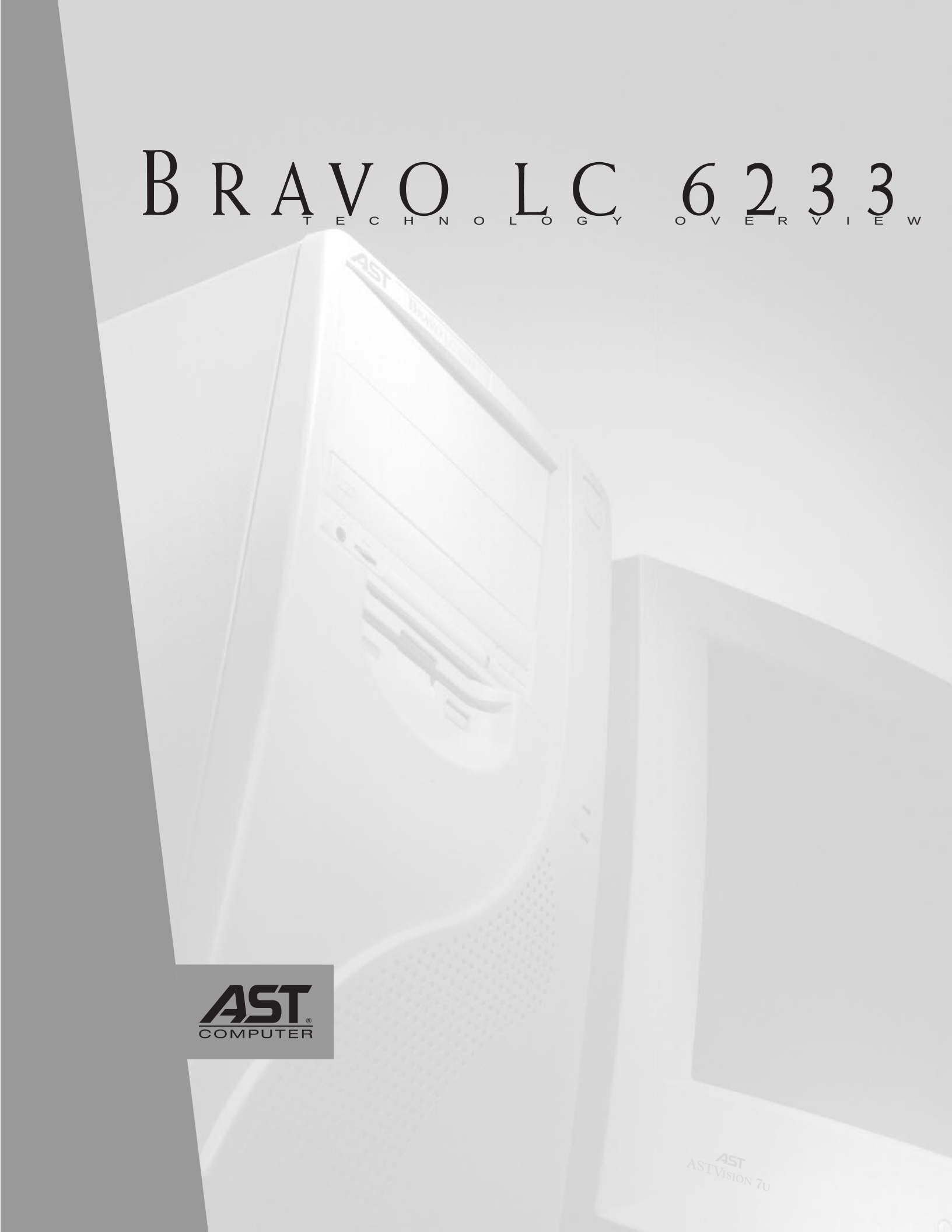
BRAVO LC 6233

TECHNOLOGY OVERVIEW



AST COMPUTER

BRAVO LC 6233

The Bravo LC 6233 is designed to give business users the competitive computing edge by providing leading edge technology that adds value, not cost. The AST® Bravo LC 6233 introduces the highest performing processor – the Intel® Pentium® II processor – which extends Intel's P6 family of processors by combining the power of the Intel Pentium Pro processor with the capabilities of MMX™ technology. This seamless integration of two powerful technologies enables superior software performance while providing headroom for applications that take advantage of MMX technology. Additionally, the Bravo LC 6233 provides other leading edge technologies including superior S3 ViRGE/DX 2D/3D graphics and S.M.A.R.T. drive technology.

INTEL PENTIUM II PROCESSOR

The Intel Pentium II processor means incredible processing power. With 7.5 million transistors, it provides the best performance available for either 16-bit or 32-bit applications running on advanced operating systems such as Microsoft® Windows® 95 and Windows NT®. The Intel Pentium II processor incorporates a pipelined Floating-Point Unit (FPU) that supports 32-bit and 64-bit formats.

Aiding the Intel Pentium II processor's superior performance on the Bravo LC 6233 is 32 KB of non-blocking level one cache and 512 KB of unified, non-blocking level two cache which reduces the processor's average memory access time and provides it with fast access to recently used instructions and data. The performance of this cache is enhanced through a dedicated 64-bit data bus.

MMX Technology comes standard on the Intel Pentium II processor. It features high performance Single Instruction, Multiple Data (SIMD) technology and brings 57 new instructions to the processor that allow applications to achieve a new level of performance. MMX technology operates at 64-bits – Intel's general-purpose registers have only 32-bits – and is designed to enhance the performance of a variety of multimedia and communications applications. Software developers can use MMX technology to realize faster video frame rates, allowing for smoother, more realistic video. MMX technology will also make advanced applications such as video-conferencing, which previously required expensive hardware, more practical and better looking on the PC.

A Single Edge Contact (S.E.C.) Cartridge provides the Intel Pentium II processor with a new and innovative packaging technology that replaces the Pin Grid Array (PGA) technology used on previous Intel processors. The most notable physical change to the Intel Pentium II processor is that the level two cache and processor are integrated on a card, not on a chip as with the Intel Pentium Pro chip. This new Intel design increases the Intel Pentium II processor's manufacturability and yields, and ultimately will enable faster, more powerful Intel Pentium II processors.

Additionally, the new S.E.C. cartridge plugs into a newly designed Slot 1 that is standard on all new Intel Pentium II processor main logic boards. The Slot 1 and S.E.C. cartridge designs enable the Bravo LC 6233 to take advantage of future planned upgrades to Intel Pentium II processors. The Intel Pentium II processor brings to the business user leading edge performance while remaining compatible with applications running on previous members of the Intel family of microprocessors.

S3 VIRGE/DX 64-BIT 2D/3D GRAPHICS AND VIDEO ACCELERATOR

The S3 ViRGE/DX with integrated 170 MHz RAMDAC provides superior graphics and smooth 30 frames per second video performance through its S3d™ architecture. And because it is integrated on the Bravo LC 6233 main logic board, the value of this feature is maximized.

The 64-bit S3d Engine utilizes exclusive features such as SmartFilter®, which provides higher performance and higher quality texture mapping, and a parallel processing perspective engine for increased throughput. These features provide excellent quality scenes at high frame rates and help the Bravo LC 6233 to realize the full capabilities of desktop applications.

Additionally, S3's Stream Processor technology allows simultaneous display of graphics and video of different color depths. This saves memory bandwith and storage capacity while permitting higher frame rates.

S.M.A.R.T. DRIVE TECHNOLOGY

S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) allows your hard drive to communicate its predicted reliability status which allows IS administrators or PC users to proactively manage component replacement. For example, if your hard drive's read/write errors increase dramatically during use, S.M.A.R.T. technology will alert a system administrator of a potential failure allowing IS departments to react and actively resolve problems before they even occur! System downtime, productivity loss, and even loss of valuable data can be prevented through the combined use of S.M.A.R.T. drives and Intel LANDesk® software.

SYSTEM FLEXIBILITY, ADD-ON OPTIONS, AND UPGRADABILITY

The Bravo LC 6233 provides superior computing performance without requiring you to purchase unnecessary built-in features. However, should you decide to add on common features you can order AST qualified system add-on options below or make arrangements with your reseller to customize your system to meet your specific needs.

OPTIONS FOR THE BRAVO LC 6233
Matrox Millennium Professional 64-bit PCI Graphics Accelerator Card
Intel EtherExpress™ Pro10/100 PCI LAN Card
Sound Blaster® compatible 16-Bit Stereo Sound Card with the ESS1868 Audio Chip and Qsound 3D Effect

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