



STRIDE 440



STRIDE 440

The Stride 440 is a multiuser workstation for the smaller, cost-conscious office. A true high-performance microcomputer, the desk-top 440 is compact and cost-effective, yet offers ample processing power for both business and technical applications.

MicroSage engineered and built the Stride 440 for improved multiuser capacity and flexibility. Our exceptional price/performance ratio proves the value of a solid design. For a comparable configuration with ten users, a Stride 440 responds at a rate that an IBM-PC[®] can't reach. In the Stride 440, users about \$1,000.00 less per user.

Like all MicroSage computers, the Stride 440 is MCR, *Inter[®]* compatible, providing one of the world's largest application software bases. With no changes required, the 440 runs databases, word processors, spreadsheets, communications programs, office automation programs and other MCR applications.

And, in Stride's high-performance cycle, it runs them faster. MicroSage's proprietary Memory Management Unit is twice as fast as conventional designs. Our terminal I/O rate is 200% to 400% faster than most competitors.

The Stride 440's built-in flexibility supports a wide range of peripherals and networking options. For the smaller office, its cost of flexible processing power is unparalleled.

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STRIDE a product group of
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Building on the strength of 30,000 users!

STRIDE 440



The Stride 440 is the workhorse of the 400 Series, offering a superb combination of features and options. It is a true high-performance microcomputer with an exceptional price/performance ratio. Utilizing a proven tightly-integrated approach, the 440 provides unparalleled cost-effective processing power for both business and technical computing applications.

Designed around the popular VMEbus architecture, the Stride CPU board achieves maximum performance from the Winbond 8008 microprocessor running at 12 MHz with zero wait states on all main board memory (1M byte RAM is standard). The basic board provides numerous features that are either options, or simply not available on competing systems.

Integrated Design

Best of all, with Stride's advanced design, system options are designed directly into the system boards to increase performance. All major components fit within one case.

In addition to the CPU board, each 440 features a Winchester board and up to 195M bytes of hard disk storage. A total of 10 serial ports (five on the CPU, six on the Winchester) provides exceptional multiuser capability.

Flexibility

Flexibility is the true key to the entire Stride 400 Series, and the 440 is a prime example. It is fully compatible with all other Stride models, yet represents a perfect balance between affordability and performance. Options include memory expansion to 6M bytes, a custom designed Memory Management Unit, a floating point processor (M6 52081), a second 640K byte floppy, a built-in QIC-02 streaming tape back-up, 8 additional serial ports (a total of 18), an on-board Local Area Network providing communication with up to 63 computers, and finally, access to the growing line of hundreds of VMEbus add-on products.

Exclusive Features

MicroEdge exclusives include true 88.4K baud rates for all serial ports to provide unmatched response times. This is two to four times the rates supported by other comparable systems.

There's also an extended ROM area ideal for OEM and technical computing applications. This ROM can be configured to store up to 64K bytes of programs or data. For real-time applications, a user-accessible battery-backed CMOS RAM area is also provided.

Memory Management

LikeWISE, the proprietary Stride Memory Management Unit (MMU) delivers exceptional performance. The single-stage fast translation RAM concept employed in the 440 is typically two times faster than conventionally-designed circuits using a single MMU micro-processor. Stride's MMU produces superb response times in demanding multiuser environments such as UNISYS System V.

Product Acceptance

With an installed base of more than 10,000 microcomputers since 1981, MicroEdge has established a solid reputation for providing exceptional price/performance. It's a reputation that was built around superior models like the 440.

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STRIDE a product line of
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Building on the strength of 50,000 users!

STRIDE 440 FEATURES AND SPECIFICATIONS

CPU FEATURES

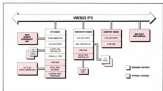
- 12 MHz 68030 CPU standard
- 1M bytes of on-chip cache 128K parity RAM. Up to 8M bytes on 440 with RAM/Port Board
- Battery backed-up real-time clock
- 4K bytes of battery backed-up CMOS RAM
- 747 640K bytes floppy disk controller for IDE/STI floppies, and drive (opt.)
- Controller compatible for direct-lead parallel printer port
- Memory Management Unit (MMU) uses no wait states in first 1M bytes of memory
- Local Area Network (LAN) supported by on-board Channel chip set, low-cost controllers and twisted pair cable (opt.)
- NS32048 Floating Point Unit (FPU) math chip (opt.)

WINCHESTER BOARD FEATURE

- 4M to 192M bytes 31/2" hard disk storage
- Proprietary non-interleaved non-stereot 3150K Winchester hard-disk controller
- QBC-80 high speed 1/2" tape drive featuring supports continuous streaming in Winchester

SERIAL PORT FEATURES

- 16 RS-232C serial ports standard, 4 on CPU board, 8 on Winchester, additional 8 on RAM/Port board (opt.)
- All serial ports support up to 19.2K baud
- CTS, RTS and CD signals supported
- Source snap-back RJ11-C "phone" connectors



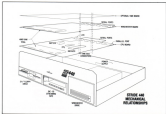
VME BUS INTERFACE

- One slot for optional stride card or single or double-width boardcard
- RAM/Port Board adds 8 serial ports per board and optional RAM up to 4M bytes per board
- High-speed low-cost monochrome graphics board (794 x 321 resolution)
- IEEE-488 (GPIB) controller
- Ethernet controller
- NR2020 1/2" tape tape controller
- Many third-party modules

MECHANICS & ENVIRONMENT

- 100W switching power supply
- Size: height = 14.5cm (5.7")
width = 48.0cm (18.9")
depth = 42.5cm (16.7")
- Weight = 780g or 14.4lb (or 28 to 35 lbs.)

- Ambient Temperature: 0-40°C (or 32-104°F)
- Complies with Part 15 of FCC rules for a Class A computing device



STRIDE VL MULTIMEDIA

Available in 500, the STRIDE VL becomes the 3D-rendering workhorse of the world in high-performance environments. It can process more pixels at high to ultra-high rates per second using its own dedicated apparatus and multiprocessing is required.

The STRIDE VL is expertly crafted to handle high-speed, high-performance environments and is not limited to 60 MHz video rates as is the Stride II. Overall, the STRIDE VL permits significantly higher data



rates throughout than the STRIDE II of 60 MHz in a smaller package. Plus, Stride II (60) has built-in memory

structures, but Stride VL's smaller form factor is more flexible.

STRIDE VL FEATURES AND SPECIFICATIONS

CPU FEATURES

- 1 or 2 x 486DX CPU (optional)
- 1 or 2 x 16 or 32-bit video chips (optional) 1 or 2 x 16-bit video on 486 (with 486DX/486DX-25)
- Battery-backed-up real-time clock
- 4M bytes of battery-backed-up CMOS RAM
- 10M-20M bytes flash-ROM (not available for 486DX-25 and 486DX-33)
- Comprehensive software printer port (software printer port optional)
- Memory Management Unit (MMU) with 16MB Memory Protection Key (MPK) (not available for 486DX-25 or 486DX-33)

- Local Area Network (LAN) bus (optional) or token Controller chip (no module connections with Stride VL) (optional)
- Modem (Firmware Port and 9600 baud) (not available)

MINI-COMPUTER BOARD FEATURES

- 20M x 100M bytes (20M) fast disk storage
- Proprietary non-volatile memory to reduce file maintenance time (not available)
- 400-500 high speed 1M byte drive (optional) (optional) (optional)

SERIAL PORT FEATURES

- 100K-200K serial ports (standard) 1 or 2 (CPU board, 2 or 3 (Minicomputer board) (not available)

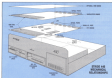
- All serial ports support up to 19200 baud
- CTS, RTS and DSR signals supported
- Encoder/Decoder Bus-C (no "ground" connection)

VME BUS INTERFACE

- One master optional Stride card or slave or slave/master/processor
- 16-bit bus device control word (slave) or 32-bit and optional 16-bit (1 or 2 slaves per board)
- High-speed bus-to-processor (processor) (1 or 2 slave/master)
- 100-1000 (parallel) controller
- 100-1000 (serial) controller
- 100-1000 (100-1000) controller
- Many third-party vendors

MECHANICAL & ENVIRONMENT

- 100W switching power supply
- Size (height x width x depth) with 100W supply = 4.5" (114.3mm) x 16.5" (417.8mm) x 10.5" (266.7mm)
- Weight = 15kg or 33lbs (with 100W)
- Operating Temperature: 0°C to 50°C (or 32°F to 122°F)
- Compatible with Part #1 or Part #2 to a Disk-Archiving device



STRIDE VL's flexible architecture and high-speed processor make the STRIDE VL a smaller package with more or less processor and more interfaces for optional features as provided on our major boards.