

STRIDE

DESIGN • PERFORMANCE • FLEXIBILITY • RELIABILITY • SERVICEABILITY
 (312) 408-2000 FAX (312) 408-2001

One Board One Family

The Stride 480 is the top of the line in the 480 Series, offering a superb combination of features and advanced capabilities. It is a true high-performance multiuser microcomputer with almost unlimited expansion, yet it still offers an excellent price/performance ratio. Utilizing a proven engineering, tightly-integrated approach, the 480 provides an unparalleled processing power for fast-business and technical computing applications.

Designed around the powerful VMEbus architecture, the Stride 480 system provides maximum performance and flexibility from the Motorola 68000 (or 68010) microprocessor running at 10 MHz with 512K word (512K) on-chip main CPU board memory (2M optional RAM is available). The versatile CPU board provides numerous features that are either optional or simply not available on competing systems.

INTEGRATED DESIGN

With Stride's advanced integrated design, the numerous 480 boards fit into interfaces and engineered directly on the main system board to reduce overhead and costs, while increasing performance.

Each 480 features a powerful Windows controller for up to four individual users making an incredible 500K bytes of hard disk storage. A total of 10 serial ports (four on CPU board, six on Windows board) provides exceptional multiuser capability.



FLEXIBILITY

Flexibility is the main key to the entire Stride 480 Series, and the 480 is a prime example. Please visiting the face of the product family (i.e. 68000-compatible with all other Stride models).

Options include memory expansion to 4M bytes (RAM), a custom designed 68010 Memory Management Unit, a floating point math processor (FPU 38700), a speed 640K byte floppy, a built-in SCSI for streaming tape backup, 12 additional serial ports (for a total of 20), an enhanced Local Area Network providing communication with up to 64 computers and, most importantly, access to the growing line of hundreds of VMEbus add-on products.

Utilizing the advanced bus design, the 480 seriously outperforms high performance plug-in cards such as the MFC/PS, 327-type controllers, an SCSI-480 interface with RAM, an Ethernet controller and many others. With its elegant floor-standing design, the 480 features four user's VME bus slots for the addition of two extra large Stride RAM/IO cards and two double-wide Eurocards.

EXCLUSIVE FEATURES

Stride Micro solutions include 28.4K baud rates for all serial ports to provide (optional) response times. This is fast to four times the rates supported by comparable systems. This high-speed communication capability will be particularly appreciated in multiuser environments and will appreciate shipping responsive screen I/O.

There's also an extended ROM area ideal for OEM and technical computing applications. The ROM can be configured to store up to 10K bytes of program or data. For machine applications, a user accessible battery-backed CMOS RAM option also provided.

MEMORY MANAGEMENT

The proprietary design of the Stride Memory Management Unit (MMU) provides exceptional performance. The single-chip-based translation MMU circuit employed in the 480 is typically two to four times faster than user normally designed circuits using a single MMU-chip-based circuit. When combined with the Motorola 68000 CPU, the MMU provides superior response times in many demanding multiuser environments.

PRODUCT ACCEPTANCE

With an installed base of more than 7000 microcomputers since 1983, Stride Micro has established a reputation, backed by satisfied customers and optional improvements, for providing exceptional performance. It is a reputation that we built around superior microcomputers like the Stride 480.

VIBRAXIS VE, MATRIX II

Released in 1999, the VIBRAXIS has become the 3D/4D key standard throughout the world for high performance applications. It supports scan rates as high as 120 Hz for reconstructing 3D point clouds. Supports the multiplexing it requires.

The VIBRAXIS consistently matches its 3D/4D high-speed, high-performance performance and is 40 times 3-D and 10-40 times 4-D faster than the standard 2-D camera. The VIBRAXIS provides significantly higher



raw system throughput than standard 2-D cameras. It is smaller package (under 100 gms) of VIBRAXIS.

and are directly in the market, and many 3D/4D camera than standard 2-D camera.

SYSTEM AND FEATURES AND SPECIFICATIONS

GPU FEATURES

- 64-bit 3D/4D GPU (standard)
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- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)

- Local Area Network (LAN) support, connectivity to host (optional)
- Remote operation and control (optional)
- Remote Floating Point (FP) (optional)

INTERFACE BOARD FEATURES

- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)

SERIAL PORT FEATURES

- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)

- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)

THE 3D SYSTEM

- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)

Mechanics & Environment

- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)
- 64-bit 3D/4D GPU (standard)



THE VE MECHANICS RELATIONS

VIBRAXIS Matrix II and VE 3D/4D GPU (standard) are the most advanced and most powerful for optional features are provided under major brands.



STRIDE 460

The top of the line in the 400 Series, the Stride 460 is a powerful multiuser workstation-computer for the smaller office with plans to grow. With standard features not found on competing systems, the Stride 460 is ideal for both business and technical applications.

Like all Micrologix computers, the Stride 460 is NCR Tower® compatible, providing one of the world's largest application software bases. With no changes required, the 460 runs databases, word processors, spreadsheets, communications programs, office automation programs and other NCR applications.

And, in Stride's high-performance mode, it runs three times. Micrologix's proprietary Memory Management Unit is twice as fast as conventional designs. Our terminal I/O rate is 200% to 300% faster than most competitors. Even when it's time to add more terminals, the Stride 460 is simply responsive.

The Stride 460's built-in flexibility supports a wide variety of peripherals and is expandable. Its integrated design leaves plenty of room for up to 3 Winchester drives, VMEbus cards and additional terminals.

Micrologix engineered and built the 460 for integrated multiuser capacity and flexibility. As your business grows, the cost-effective Stride 460 keeps you in step.

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A product group of

Micrologix Computer Systems, Inc.
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Building on the strength of 30,000 users!



The Stride 460 is the top-of-the-line in the 460 Series, offering a superb combination of features and extended capacities. It is a true high-performance multiuser microcomputer with almost unlimited expansion, yet it still offers an excellent price/performance ratio. Utilizing a proven highly-integrated approach, the 460 provides unparalleled processing power for both business and technical computing applications.

Designed around the popular VMEbus architecture, the Stride 460 system achieves maximum performance and flexibility from the Motorola 68020 multiprocessor, running at 32 MHz with zero-wait states on all main CPU board memory (2M bytes of RAM is standard). This versatile CPU board provides numerous features that are either optional, or simply not available on competing systems.

Integrated Design

With Stride's advanced integrated design, the numerous 460 options or their interfaces are engineered directly on the main system boards to reduce overhead and costs, while increasing performance.

Each 460 features a powerful Winchester controller fit up to three individual drives totaling an incredible 576M bytes of hard disk storage. A total of 22 serial ports (four on CPU board, six on Winchester board, twelve on port boards) provides exceptional machine capability.

Flexibility

Flexibility is the true key to the entire Stride 460 Series, and the 460 is a prime example. Representing the top of the product family, it is fully compatible with all other Stride models.

Options include memory expansion to 128M bytes of RAM, a custom designed 480K Memory Management Unit (MMU), a floating point math processor (M68021), a second 640K byte floppy, a built-in QIC-02 streaming tape back-up, 11 additional serial ports (for a total of 22), an on-board Local Area Network providing communication with up to 63 computers and, most importantly, access to the growing line of hundreds of VMEbus add-on products.

Utilizing this advanced bus design, the 460 can easily support high-performance plug-in options such as the NRETPS 17 tape controller, an IEEE-488 interface with DMA, an Ethernet controller and many others. With its elegant floor-standing design, the 460 features four spare VMEbus slots for addition of two extra large Stride RAM-Plex cards and two double-wide keyboards.

Exclusive Features

MicroSage exclusives include true 8K-4K baud rates for all serial ports to provide unmatched response times. This is two to four times the rates supported by comparable systems. This high-speed communication capability will be

particularly appreciated in multi-terminal arrangements and with applications involving responsive screen I/O.

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

Memory Management

The proprietary design of the Stride Memory Management Unit (MMU) provides exceptional performance. The single-stage fast translation RAM concept employed in the 460 is typically two to four times faster than conventionally designed circuits using a single MMU microprocessor. This MMU produces superb response times in many demanding multiuser environments.

Product Acceptance

With an installed base of more than 25,000 microcomputers since 1981, MicroSage has established a reputation, backed by satisfied customers and editorial endorsements, for providing exceptional price/performance. It is a reputation that was built around superior microcomputers like the Stride 460.

Model and options are available at MicroSage Computer Systems, Inc.

STRIDE A product group of
MicroSage Computer Systems, Inc.
480 E. 40th St., New York, NY 10017
212-512-5800
Building on the strength of 20,000 users!

STRIDE 466 FEATURES AND SPECIFICATIONS

CPU FEATURES

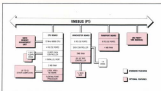
- 12 MHz 486 CPU (standard)
- 2M bytes of on-chip-state On-chip parity RAM. Up to 12M bytes on 444-pin RAM/ROM boards
- Battery back-up real-time clock
- 4K bytes of battery back-up CMOS RAM
- 14' 486K byte floppy disk controller for LSDD floppies, 3rd drive (opt.)
- Graphics compatible:
 bi-directional parallel printer port
- Memory Management Unit (MMU) uses no wait states in first 2M bytes of memory
- Local Area Network (LAN) supported by on-board Controller chip set, bus-based connectors and twisted pair cable (opt.)
- 584581 Floating Point Unit (FPU) math chip (opt.)

WINCHESTER BOARD FEATURES

- 40K to 170M bytes 5 1/4" hard-disk storage
- Proprietary non-terminated non-shielded ST506 Winchester hard disk controller
- QIC-02 high speed 1/4" tape drive backup supports continuous streaming to Winchester

SERIAL PORT FEATURES

- 10 RS-232C serial ports standard, 4 on CPU boards, 6 on Winchester board, additional 6 on each RAM/ROM board, 3d serial (opt.)
- All serial ports support up to 19.2K baud



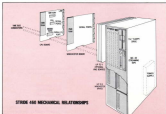
- CTS, RTS and CD signals supported
- Secure snap-lock RJ45-C "phone" connectors

VME BUS INTERFACE

- Two optional VMEbus slots, 2 single-card size and 2 double-width (or single-width) full-card size
- RAMPar Board: adds 6 serial ports per board and optional RAM up to 6M bytes per board
- High-speed bus-use monochrome graphics board (192 x 100 resolution)
- IEEE-488 (GPIB) controller
- Ethernet controller
- PARCIPS 1/4" 5-track tape controller
- Many third-party modules

MECHANICS & ENVIRONMENT

- 400W switching power supply
- Size: height = 69.4cm (27.1")
 width = 29.5cm (9.0")
 depth = 46.5cm (18.2")
- Weight = 20Kg to 40Kg (or 44 to 75 lbs.)
- Ambient Temperature: 0-40°C (or 32-104°F)
- Complies with Part 15 of FCC rules for a Class A computing device



STRIDE 466 MECHANICAL RELATIONSHIP