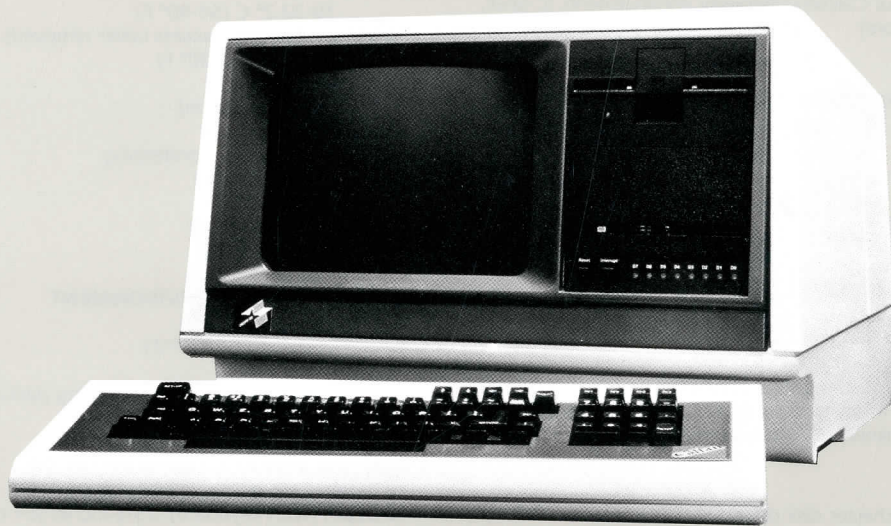# Callan

UNISTAR 200 MULTIUSER SYSTEM

The UNISTAR™ 200 multiuser workstation is the second generation of a new family of powerful, 68000-based microcomputers that are designed and built to provide speed and versatility for the scientific, industrial and commercial markets. As a completely integrated desktop system, the UNISTAR 200 Multiuser System allows for up to four additional users while maintaining cost effectiveness and high reliability. The UNISTAR 200 achieves the ultimate in multistation flexibility for professional applications.

The UNISTAR 200 Multiuser System is a turnkey system that includes an intelligent video terminal, integrated disk storage, a microprocessor CPU and the UNIX* operating system.

FEATURE SUMMARY

PROCESSOR
- 16/32-bit 68000 microprocessor CPU (8 MHz)
- No wait states for local RAM access
- 512K bytes dynamic local RAM (expandable to 1M bytes)
- Eight vectored interrupt levels
- Two-level (segment/page) memory management unit
- IEEE 796 compatible Multibus* architecture

DISK STORAGE
- 600K byte (formatted) 5¼-inch minifloppy; double-sided, double-density
- DMA-based minifloppy controller with high quality analog data separator
- 21M byte (formatted) 5¼-inch Winchester disk
- DMA-based Winchester controller providing burst error correction

PERIPHERALS
- High performance Winchester controller
- 83-key detachable keyboard (including numeric keypad) with 18 programmable function keys
- 12-inch P31 green phosphor monitor with a 25 × 80 character/line display
- VT100/VT52* – compatible video controller with split screen feature and six alternate video attributes
- Eight slot Multibus* card cage (IEEE 796 compatible)
- 3 extra slots available
- Supports 4 RS232 interface ports
- ETHERNET* compatible

SYSTEM SOFTWARE
- Bell Laboratories, UNIX V7 (licensed under UNIX System III) multiuser version with University of California/Berkeley enhancements (C-Shell, diffdir, head, last and more)
- 68000 Assembler
- C Language*
- Text processing functions: document formatter, spelling program and full screen editor.

SOFTWARE OPTIONS
- ADA
- Fortran 77
- Pascal
- COBOL
- BASIC
- EasyType™ Word Processing
- MicroINGRES* Relational Database Manager
- UNICALC* Electronic Spreadsheet
- Software maintenance agreement including UNIX upgrades, diagnostics, bug reports, application notes, utility updates and device driver releases
- Reconfiguration rights (allows I/O driver additions)

HARDWARE OPTIONS
- 10M byte 5¼-inch Winchester disk drive
- 256K byte memory expansion board
- 512K byte memory expansion board
- TEKTRONIX 4010-compatible graphics controller board

ADDITIONAL FEATURES
- Complete set of hardware and software documentation included
- Complete spare parts package and maintenance manual available
- 3-month Factory Warranty
- Third-party maintenance from ITT Courier

SPECIFICATIONS
POWER
- AC Input:
    - 105-125 VAC @ 60Hz 4 amps RMS load
    - 210-250 VAC @ 50Hz 2 amps RMS load
- Input Power:
    - 500 VA apparent; 300 Watts maximum
- DC Output:
    - +5V @ 25 AMPS
    - +12V Linear @ 4 AMPS
    - +12V Motors @ 4 AMPS
    - −12V @ 3 AMPS
    - −5V @ .5 AMPS
    - Maximum power load is 225 watts
- DC Power Reserve: (for spare slots)
    - +5V @ 13 AMPS
    - +12V @ 1.3 AMPS
    - −12V @ 1.8 AMPS
    - −5V @ .5 AMPS

ENVIRONMENTAL
OPERATING ENVIRONMENT
- Temperature (rear access cover installed):
    - 10-32.2° C (50-90° F)
- Temperature (rear access cover removed):
    - 10-26.7° (50-80° F)
- Altitude:
    - 8000 ft. (2.4 km)
- Humidity:
    - 10-90% non-condensing
- Maximum Wet Bulb:
    - 28° C (82° F)
- Minimum Dew Point:
    - 2° C (36° F)

NON-OPERATING ENVIRONMENT
- Temperature:
    - 10-50° C (50-122° F)
- Shock:
    - Five G's maximum in shipping package

PHYSICAL DATA
- Height: 14½-inches (37 cm)
- Width: 20½-inches (52 cm)
- Depth (with keyboard): 25½-inches (64 cm)
- Depth (without keyboard): 19¼-inches (49 cm)
- Weight: 70 pounds

TIMING
- Bus Architecture: eight slot IEEE 796 Multibus
- Processor Clock: eight MHz
- Serial I/O Rate: 50-19,200 Baud

ANOTHER PRODUCT OF CALLAN ENGINEERING AND MANUFACTURING EXCELLENCE

Subscribing to a business philosophy of engineering and manufacturing excellence, with continuing emphasis on research and development and product marketing, Callan Data Systems is recognized as a proven leader and innovator in the computer industry.

Callan Data Systems products include integrated workstations for use with a variety of 16-bit microcomputers and an integrated line of versatile desktop computers for Distributors, OEM/Systems Integrators and volume end-users in advanced business, scientific, industrial, medical, communications, government and military applications. Callan products are sold throughout the United States, Europe and Australia.

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DATA SYSTEMS