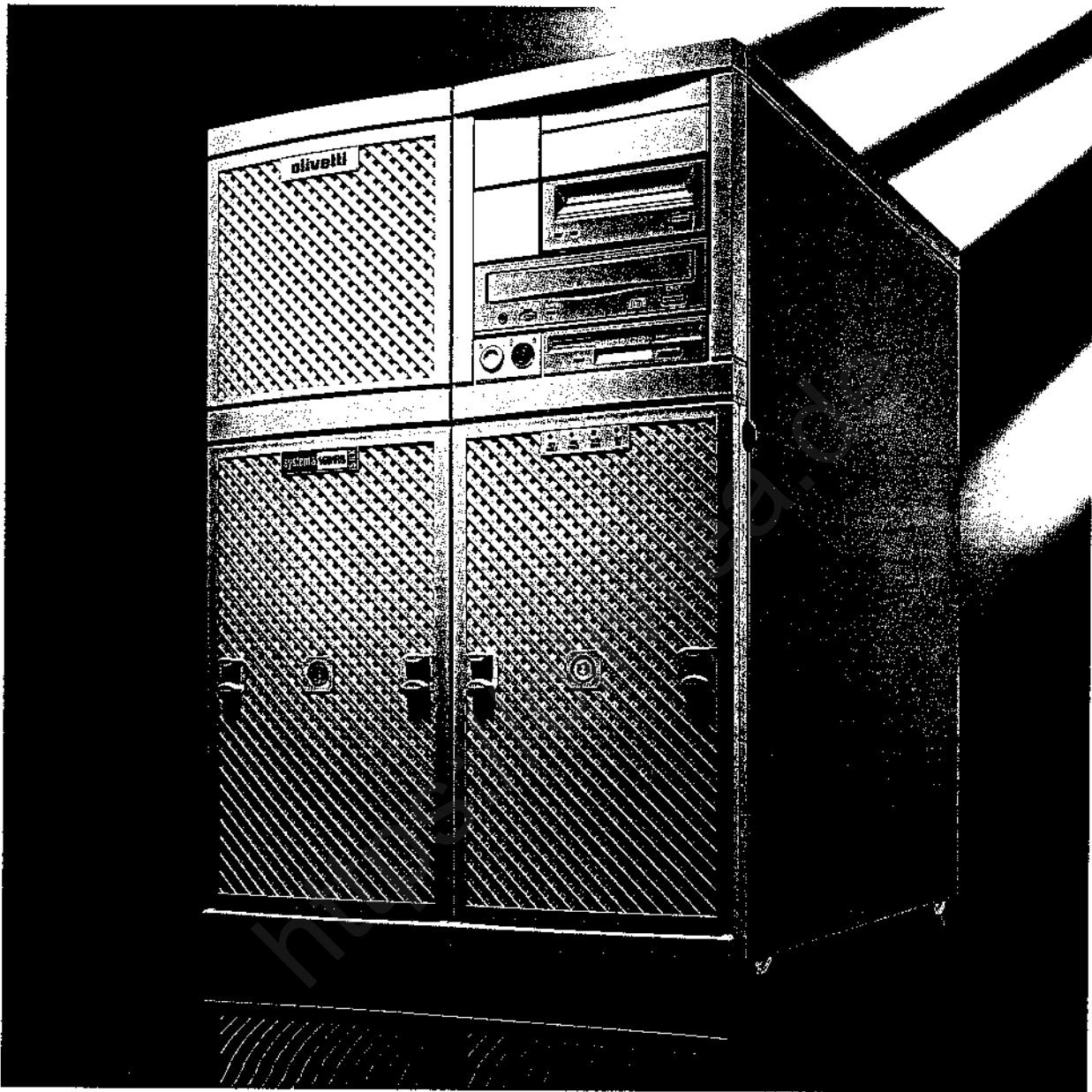# SNX 160/RS Systema

Enterprises today require powerful and flexible Information Systems designed to increase productivity and reduce costs. To meet these demands, Olivetti responds with the SNX Systema, the new line of network servers expressely designed to resolve every LAN demand.
SNX Systema offers a wide range of models and configurations to satisfy every networking requirement and, thanks to the ability to integrate future technological developments, to grow with the customer.

olivetti

Olivetti extends its Systema line with the new SNX 160/RS model, distinguished by an excellent price/performance ratio. Powerful and reliable, the SNX 160/RS is based on leading-edge technology and is fully compatible with the main industry standards.

The innovative system design improves both performance and expandability by acting on various factors:

- Expandability: *high configurability cabinet,* purpose-designed to cater for the growing requirements of a multiprocessor system, its I/O capacity, mass storage and *high resilience* capabilities.

- CPU: the use of Pentium processor CPU board operating at 100 MHz *upgradable to dual Pentium (Intel PC+MP Specs.)* enables the system to grow as requirements grow.

- I/O subsystem: the high performance standard *PCI FAST SCSI-II I/O* controller.

High capacity mass storage

The SNX 160/RS features high level expandability. The basic cabinet can house a wide range of magnetic and optical peripherals (HDU, STU, DAT, CD-ROM) for an integrated disk capacity of 25.2 GB. The server can be flanked by up to four optional PEM 200/RS (Peripheral Expansion Module) cabinets fitted with removable HDUs to add a capacity of over 200 GB fully supported at 10 MB/s.

Maximum availability of the server

The SNX 160/RS provides a set of *high resilience* capabilities able to guarantee maximum server availability for networks of vital importance.

- PCI disk subsystem with RAID technology for RAID 0, 1, 5 applications with a 4 MB cache that can be expanded to 16 MB ECC protected; full data integrity is guaranteed in all operations. This controller features one channel and may be expanded to 2 and 3 PCI channels for RAID 0, 1, 5.

- HDUs that can be removed from the outside without powering off the system and/or interrupting activities on the bus.

- A set of sensors to monitor the temperature of certain system components (boards, HDUs).

- An external Uninterruptable Power Supply (UPS), from *American Power Conversion* (APC), is mandatory for RAID 0, 1, 5 applications.

Ease of management

The SNX 160/RS includes *Storage Manager,* a graphical utility to easily configure disk arrays, and *Server View* to monitor the main components of the servers (disks, temperature, etc.), independently of the operating system, from a Windows workstation.

Technical Specifications

Microprocessor
- Intel Pentium, at 100 MHz
- Upgradable to dual Pentium 100 MHz (Intel PC+MP Specs.).

Memory
- From 16 to 208 MB or 0 to 512 MB RAM, parity protected (70 ns standard SIMMs)
- From 16 to 256 MB, ECC protected SIMMs.

Cache memory
- Primary cache integrated in the CPU
- Secondary "write-back" cache of 512 KB.

Expansion slots
- Two PCI (Bus Master)
- Four EISA (Bus Master)
- One shared EISA/PCI (Bus Master).

Standard interfaces
- Two RS 232 C asynchronous serial ports
- One Centronics type bidirectional parallel port.

Interfaces for hard disk
- EISA Single Channel FAST SCSI II controller, for RAID 0, 1, 5
- PCI Single Channel FAST SCSI II controller.

Magnetic and optical peripherals
- 1.44 MB (1.2 opt.) diskette
- 525, 1050, 2100 and 4200 MB SCSI-II removable hard disk units
- 150 MB, 320/540 MB and 1 GB streaming tape cartridge
- 1.3/2 GB, 4/8 GB DAT
- 550 MB dual speed CD-ROM.

Main cabinet
- Houses up to 5 removable units (CD-ROM, STU, DAT), 3.5" MFDU, 6 removable

hard disks
- Maximum hard disk capacity: 25.2 GB.

PEM 200/RS expansion cabinet
- Houses up to 6+6 hard disks for an additional capacity of 50.4 GB
- Up to four PEM 200/RS can be connected for an additional capacity of 201.6 GB and a total system capacity of 226.8 GB
- The same high resilient features as in the main cabinet are fully supported.

Video controller
- S-VGA, 512 KB DRAM.

High resilience
- RAID 0, 1, 5
- Hot spare disk
- Removable HDUs (hot swapping)
- Sensors for automatic temperature monitoring
- *Storage manager/Server View* software
- External UPS by *"APC"*, software monitorable via *PowerChute* (recommended for RAID solutions).

Operating systems
- Novell NetWare
- MS Windows NT Server 3.5 and later
- SCO Open Server (including SCO UNIX)
- Olivetti UNIX System V Release 4.0
- Novell UnixWare
- MS Windows for Workgroups.

The multiprocessor version of the operating system chosen is required in order to exploit the higher performance of the SNX 160/RS dual processor to the full.

intel inside

pentium® PROCESSOR

olivetti