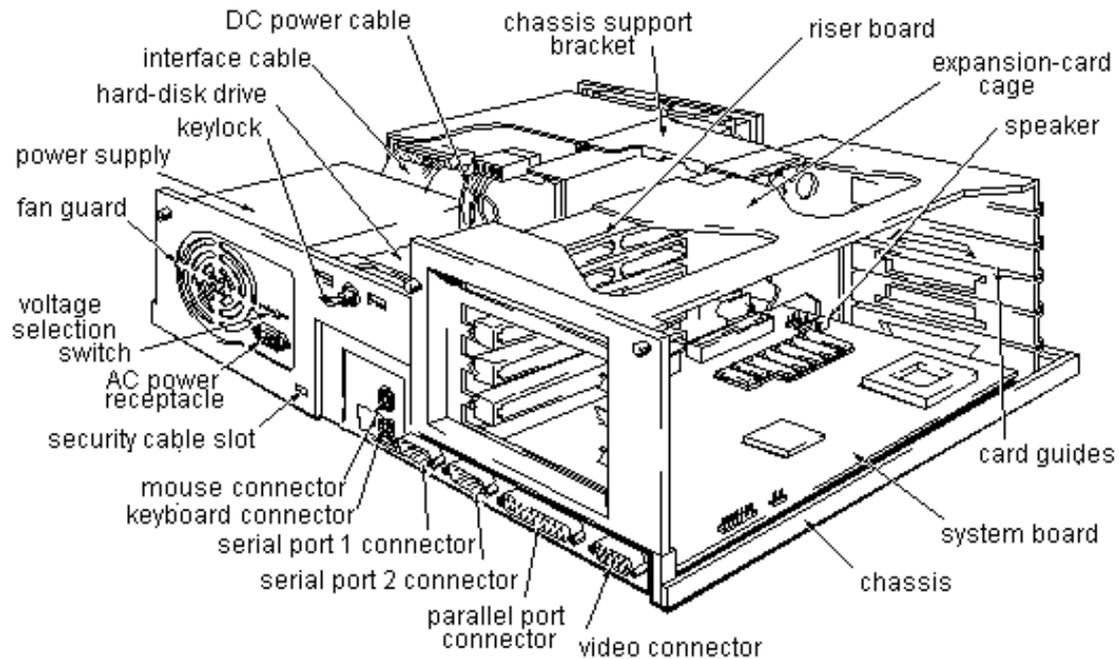


Specifications: Dell OptiPlex 4xx/MXe (4XXDM)

[Microprocessor](#) | [System Information](#) | [Expansion Bus](#) | [System Clocks](#) | [Memory](#) | [Drives](#) | [Ports](#) | [Video](#) | [Processing-Speed](#) | [Key Combinations](#) | [System-Function Key Combinations](#) | [Controls and Indicators](#) | [Power](#) | [Physical](#) | [Environmental](#) | [Regulatory Notices](#)

Component Locations



Microprocessor

Microprocessor type	33-MHz SL Enhanced Intel486 ⁶ DX chip 33-MHz SL Enhanced Intel486 SX chip 50-MHz internal/25-MHz external SL Enhanced Intel 486 SX2 chip 50-MHz internal/25 MHz external SL Enhanced Intel 486 DX2 chip 66-MHz internal/33-MHz external SL Enhanced Intel 486 DX2 chip 100-MHz internal/33-MHz external SL Enhanced Intel 486 DX4 chip
Microprocessor speeds	25/33/50/66/100-MHz
Internal cache	16 KB (SL Enhanced Intel 486 DX4 microprocessor) 8 KB (all other microprocessors)
External cache*:	
IntelDX2 and IntelDX4	128-KB static SRAM (standard)
Intel486 SX and IntelSX2	128-KB static SRAM (optional upgrade)
Math coprocessor	internal (except SL Enhanced Intel486 SX and IntelSX2 chips)
Microprocessor socket	LIF

* Standard for 66-MHz internal/33-MHz external SL Enhanced IntelDX2 chip, 100-MHz internal/33-MHz external SL Enhanced IntelDX4 chip. Optional for 33-MHz SL Enhanced Intel486 SX chip and 50-MHz internal/25-MHz external SL Enhanced IntelSX2 chip.

System Information

System chip set	VLSI
Data bus width	32 bits
Address bus width	32 bits
DMA channels	7
Interrupt levels	15
Flash EPROM	1 Mb
Serial port UART	16550A-compatible

Expansion Bus

Bus type	ISA, VL-Bus (optional)
Expansion slots	5 full-length 16-bit ISA* 2 optional VL-Bus
ISA bus speed	8 MHz
VL-Bus speed:	
25- or 50-MHz processor	25 MHz
33-, 66-, or 100-MHz processor	33 MHz
ISA connector data width	16 bits (maximum)
ISA connector size	98 pins
VL-Bus connector data width	32 bits (maximum)
VL-Bus connector size	58 pins

* For systems with the DX2 processor, the bottom expansion card slot is restricted to a half-length size. The DX2 processor and its heat sink are mounted on a daughter card, which gets in the way of a full length card.

System Clocks

Diskette/communications ports	24 MHz from system clock
System clock	25 or 33 MHz (depending on processor used)
Keyboard controller	14.318 MHz

Memory

Architecture	interleaved (if both SIMMs are of the same capacity) otherwise noninterleaved
Wait states	0 or 1
SIMM sockets	2*
SIMM capacities	4, 8, 16, and 32 MB (nonparity or parity)
Standard RAM	4 MB
Maximum RAM	64 MB
External cache	128 KB, direct-mapped SRAM**
Memory access time	
tRAC	70 ns
tCAC	20 ns
BIOS address	F0000h

* The SIMM sockets are not prioritized. If there is only 1 SIMM, it can be installed in either SIMM_A or SIMM_B. Also, if the SIMMs are different sizes, they can still be installed in any order.

** Standard for 66-MHz internal/33-MHz external SL Enhanced IntelDX2 chip, 100-MHz internal/33-MHz external SL Enhanced IntelDX4 chip. Optional for 33-MHz SL Enhanced Intel486 SX chip and 50-MHz internal/25-MHz external SL Enhanced IntelSX2 chip.

Drives

Externally accessible bays	(3) 5.25-inch bays for half-height diskette drives, tape drives, or CD ROM drives
Internally accessible bays	(2) 3.5-inch brackets (one is optional)
support up to 2 half-height hard-disk drives	

Ports

Externally accessible:

Serial (DTE)	(2) 9-pin connectors (16550-compatible, 16-byte buffer)
Parallel	(1) 25-hole connector (bidirectional) (AT-, PS/2-compatible)
Video	(1) 15-hole connector
PS/2-style keyboard	(1) 6-pin mini-DIN
PS/2-compatible mouse	(1) 6-pin mini-DIN

Internally accessible:

IDE hard-disk drive	40-pin connector
Diskette drive	34-pin connector
VGA feature	26-pin connector

Video

Video type	VGA
Video chip set	Cirrus CL-GD5429
Video memory	1 MB
Maximum resolution	1280 x 1024 pixels, 16 colors

Processing-Speed Key Combinations

<CTRL-ALT-\<>	toggles microprocessor speeds on 101-key keyboard
<CTRL-ALT-#>	toggles microprocessor speeds on 102-key keyboard

System-Function Key Combinations

<CTRL-ALT-DEL>	restarts (reboots) the computer
<CTRL-ALT-ENTER>	starts System Setup program (MS-DOS only)

Controls and Indicators

Reset control	push button
Power control	push button
Power indicator	green LED
Diskette-drive access indicator	green LED
Hard-disk drive access indicator	green LED

Power

Wattage	145 W
Voltage	115 V at 60 Hz or 230 V at 50 Hz
Heat dissipation	225 BTUs
Backup battery	3.0-V CR2032 lithium magnesium oxide coin-cell

Physical

Height	15.4 cm (6.05 inches)
Width	42.1 cm (16.56 inches)
Depth	41.3 cm (16.25 inches)
Weight	10.9 kg (24 lb)

Environmental Temperature:

Operating	0 to 35C (32 to 95F)
Storage	-40 to 65C (-40 to 149F)
Relative humidity	8% to 80% (noncondensing)

Vibration:

Operating	0.25 G
Storage	0.5 G

Shock:

Operating	5 G
Storage	20 G

Altitude:

Operating	-16 to 3048 m (-50 to 10,000 ft)
Storage	-16 to 10,600 m (-50 to 35,000 ft)

Regulatory Notices

FCC (U.S. only)	Class B
DOC (Canada)	Class B
CE Mark	EN 55022, EN 50082-1, IEC 801-2, IEC 801-3, IEC 801-4

NOTE: If the front panel of the computer bears the Energy Star emblem, then its original configuration complies with the requirements set by the EPA for energy-efficient computers.

UL

For computers set at 115 V Use a UL-certified grounded cable, type SVT or SJT, with a minimum of 18 American wire gauge (AWG). The cable must be no longer than 15 feet and must have a parallel-blade, grounded plug rated for 15 A.

For computers set at 230 V (within the U.S.) Use a UL-certified grounded cable, type SVT or SJT, with a minimum of 18 AWG. The cable must be no longer than 15 feet and must have a tandem-blade, grounded plug rated for 15 A/250 V.

For computers set at 230 V (outside the U.S.) Use a grounded cable, type SVT or SJT, with a minimum of 18 AWG. The cable must be no longer than 15 feet, must be rated according to the requirements of the country in which the equipment is to be used, and must have a grounded plug. The cable should be labeled "HAR" and should have the appropriate safety approvals for each country.