



Dell Dimension 486 V/V XPS

Specifications

Processor

- **486V/XPS:** Intel 486DX2/66, 486DX4/100
- **486V:** Intel 486SX/25, 486DX/33, 486DX2/50

Memory

- **486V/XPS:** 8MB standard, expands to 64MB
- **486V:** 4 or 8MB standard, expands to 32MB

I/O Expansion Slots

- **486V/XPS:** 7-expansion slots; **486V:** 6-16 bit ISA

Diskette Drive

- 3.5MB diskette drive

Integrated Features

- 2-serial ports, parallel, keyboard, mouse, video

Internal Expansion Bays

- **486V/XPS:** 4 - user accessible, 2 - internal
- **486V:** 4 - user accessible, 1 - internal

I/O Architecture

- **486V/XPS:** VL-Bus and ISA, **486V:** ISA

Power Supply

200 Watt

Diagnostics

- Normal Post Diags performed on Power UP of system.
- Dell system support diskette or QAPlus/FE software
- Troubleshoot according to errors found during test

CMOS Access

- QAPlus/FE

Tools and Software Requirements

- Flat bladed screwdriver
- Needle nose pliers
- Anti-static wrist strap
- Diagnostics and formatted blank diskettes

Dimension 486V/XPS -- System Board Jumper Settings

Jumper	Description	Function
W1	jumpered *	Reserved
W2	jumpered * unjumpered	Color monitor Mono monitor
W3	jumpered unjumpered	Mouse IRQ12 on Mouse IRQ off
W5	unjumpered * jumpered	Clear NVRAM off Clear NVRAM on
W8		Reserved
W10		Reserved
W11		Reserved
W12	Pins 1-2 Pins 2-3 *	Processor Intel SX Prccsr 486DX/DX2/DX4/OD
W13	unjumpered	Reserved
W16	jumpered *	Reserved
W17	Pins 2-3	Reserved
W18	unjumpered *	Reserved
W19	jumpered *	Reserved
W22	Pins 2-3 *	Reserved
W23	Pins 2-3 *	Reserved
W24	Pins 2-3 *	Reserved
W25	unjumpered *	Reserved
W34	Pins 1-2 * Pins 2-3	IDE port 1 on IDE port 1 off
W35	unjumpered *	Reserved
W36	Pins 1-2 * Pins 2-3	Parallel port IRQ7 Parallel port IRQ5
W37	Pins 1-2 Pins 2-3 *	ECP DMA =1 ECP DMA = 3
W38	Pins 1-2 Pins 2-3 *	ECP DMA=1 ECP DMA=3
W39	unjumpered *	Reserved
W40	unjumpered *	Reserved

* Default

Dimension 486V/XPS -- SW1 System Board Settings

Switch	Setting	Function
SW1-1	ON * OFF	Processor speed 66 or 100MHz not used
SW1-2	ON *	Reserved
SW1-3	OFF*	Reserved
SW1-4	OFF*	Reserved

* Default

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System Board Jumper Settings

Jumper	Pins	Function
W1	jumpered * unjumpered	Uses on-board battery Uses battery on J18
W2	1-2 * 2-3	Normal operation Clear CMOS
W3	2-3 *	Reserved
W4	2-3 *	Reserved

* Default

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Processor Jumper Settings

Jumper	486 DX	486 DX2	486 SX	487 SX	Over- drive
W5	1-2	1-2	2-3	1-2	1-2
W6	1-2	1-2	2-3	1-2	1-2
W7	2-3	2-3	off	1-2	1-2

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Cache Jumper Settings

Jumper	None	64KB	256KB
W8	off	2-3	1-2
W9	off	2-3	1-2
W10	off	2-3	1-2

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Video Jumper Settings

Jumper	Pins	Function
W12	1-2 * 2-3	Color monitor Monochrome monitor
W13	OFF *	Reserved

* Default

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System Board Connector Locations

Jumper	Function
J18	Battery connector
J19	Reset connector
J20	Turbo switch
J21	Speaker
J22	Power LED

Removal Procedures

Before beginning removal complete the following steps.

1. Turn off the computer and any peripheral devices.
2. Disconnect AC power cord from outlet and system
3. Disconnect all peripheral devices from computer

System Cover

How to remove the cover:

1. **486V/XPS:** Remove cover mounting screw on the back of system
2. Detach the 2 snaps on the bottom of the chassis
4. Slide the cover straight back and tilt the cover up and back to pivot the cover from the chassis
4. **486V:** Remove 3 screws on the upper back panel
5. Pull the cover forward until it can be lifted off of the system

Field Replaceable Units

Memory	OEM Part	IBM Part
4MB SIMM	30380	22H2930
16MB SIMM	31066	22H2938

Controller	OEM Part	IBM Part
150MB TBU Ctl, Wangtek	42062	22H2520
Controller card w/o FDD	47281	22H3171

Internal Hard Drive Size	OEM Part	IBM Part
230MB Quantum	37442	22H2695
320MB	30802	22H3291
320MB	44915	22H2791
320MB	30665	22H2778
450MB	38902	22H2704
528MB	47941	22H3209
1GB DEC	29074	22H2775

System Bds.	OEM Part	IBM Part
PLN, 450V/PV	47771	22H3294
PLN, 486,VLBUS	44679	22H3295
PLN, 425, SV/SDV	49633	22H3244
PLN, 433/SV/DV	49296	22H3245
PLN, 433/V/DV	49297	22H3246
PLN 450/V/DV	49298	22H3247
PLN, 466/V/DV	49299	22H3248
Dell 486 Sys. board	766731-R	70H6663

Tape Drives	OEM Part	IBM Part
250MB Wangtek	14861	22H2735
80/20MB	45111	22H3169
525MB Wangtek	49886	22H3223
80/250 ext	45112	22H3249

CD-ROM Drives	OEM Part	IBM Part
Multispin IDE	43629	22H3117
680MB CD	45556	22H3236

Diskette Drives	OEM Part	IBM Part
5.25"	26590	22H3290
1.2MB	37473	22H3230
1.44MB 3.5"	37475	22H3229

Video Boards	OEM Part	IBM Part
2MB VRAM	45071	22H3252
1MB VRAM	49319	22H3250
3MB VRAM	49320	22H3250
2MB VRAM	74639	22H3298

Microprocessors	OEM Part	IBM Part
80486DX2-66	27217	22H3296

Miscellaneous	OEM Part	IBM Part
200 Watt power supply	35681	22H3292
200 Watt power supply	36098	22H3293
24/96 bd Internal mdm	27863	22H2741
14.4 internal mdm	46405	22H3234