



Dell 486 D/P

Specifications

Processor

486D: Intel i486SX/16/20/25/33, 486DX2/50
486P: Intel i486SX/20/25/33

Memory

- 1 or 4MB standard, expands to 64MB

I/O Expansion Slots

- 486D: 6-16; 486P: 3-16-bit full length slots

Diskette Drive

- 1.2MB diskette drive

Integrated Features

- Parallel, 2-serial, keyboard, VGA

Internal Expansion Bays

- 486D: 3-drive bays, 1 or 2 vertical mount brackets
- 486P: 2-user accessible, 1 internal

I/O Architecture

- Industry Standard Architecture ISA

Power Supply

- 486D: 224 watts; 486P: 145 watts

Diagnostics

- Normal Post Diags performed on Power UP of system.
- Dell system support diskette
- 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

System Board

Jumper Settings Dell 486D

Jumper	Setting	Function
VIRQ	installed	VGA uses IRQ9
	uninstalled*	VGA does not use IRQ9
RSET	installed	Resets sys for factory diags
	uninstalled*	Turns off factory diags
MOCO	installed*	On-board VGA color
	uninstalled	On-board VGA mono
MNT	uninstalled*	Reserved manuf. maint
EPWD	installed*	Password on
	uninstalled	Password off
MSYC	installed	Multisync monitor used
	uninstalled*	No Multisync monitor used
NIDE	installed*	New IDE drive being used
	uninstalled	Older IDE drive being used
OIDE	installed	Older IDE drive installed
	uninstalled*	Newer IDE drive installed
NWAT	installed*	Turns on norm ISA cycles
ATRM	installed	Turns on ISA exp bus boot
	uninstalled*	Turns off ISA exp bus boot

* Default

Jumper Settings Dell 486P

Jumper	Setting	Function
VIRQ	installed	VGA uses IRQ9
	uninstalled*	VGA does not use IRQ9
RSET	installed	Resets sys for factory diags
	uninstalled*	Turns off factory diags
MOCO	installed*	On-board VGA color
	uninstalled	On-board VGA mono
MNT	uninstalled*	Reserved manuf. maint.
EPWD	installed*	Password on
	uninstalled	Password off
MIRQ	installed*	Mouse uses IRQ12
NIDE	uninstalled	Turns off mouse functions
	installed*	New IDE drive being used
OIDE	uninstalled	Older IDE drive being used
	installed	Older IDE drive installed
NWAT	uninstalled*	Newer IDE drive installed
	installed*	Turns on norm ISA cycles
ATRM	uninstalled	Turns off norm ISA cycles
	installed	Turns on ISA exp bus boot
	uninstalled*	Turns off ISA exp bus boot

* Default

Removal Procedures

Before beginning removal complete the following steps.

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

System Cover

How to remove the cover

1. Unlock the security key lock horizontal position
2. Loosen 5 thumbscrews counterclockwise
3. Pull the cover towards the front of the system

Field Replaceable Units

Memory	OEM Part	IBM Part
4MB SIMM	22198	48H8204
4MB SIMM	22175	48H8201
16MB SIMM	17170	22H2794

Controller	OEM Part	IBM Part
IDE dual cntl	60548	49H3809
SCSI PIO Cntrl FS	25739	22H2858
SCSI Cntrl FS	35837	22H2816
FD ext. 5.25 w/ cbl	41776	22H3697
SCSI	63612	22H3579

Internal Hard Drive

Size	OEM Part	IBM Part
40MB IDE 5.25	18814	22H2871
40MB IDE 5.25	42081	47H3875
40MB IDE 1:1	43327	68H2698
50MB IDE 5.25	17694	49H7627
80MB IDE 3.5	19879	22H2759
80MB IDE 3.5	43118	49H6950
80MB IDE Quantum	29278	49H3951
80MB IDE Conner	42725	47H3866
80MB IDE Conner	43201	68H2693
100MB IDE	19881	47H3863
100MB IDE Quantum	43322	49H6323
120MB IDE	27546	22H2882
120MB IDE	28881	22H2923
170MB IDE 5.25	27543	22H2772
190MB IDE Maxtor	42762	93F5800
200MB IDE Maxtor	17497	22H2762
230MB IDE vertical mnt Maxtor	32813	49H0102
230MB IDE Quantum	23540	22H2767
320MB IDE	30802	22H3291
320MB IDE	30665	22H2778
330MB 5.25 Maxtor	28883	22H2774
500MB IDE Vertical	19539	22H2706
200MB SCSI 3.5	43226	47H7590
230MB SCSI	25483	22H2880
1GB SCSI	29074	22H2775

CD ROM Drives	OEM Part	IBM Part
CD ROM internal	19875	22H2717

Diskette Drives	OEM Part	IBM Part
3.5 & 5.25 Combo	27952	48H9208
3.5 (5.25)	42756	22H2673
3.5 (3.5)	41585	22H2755
5.25FS	26590	22H3290

Tape Drives	OEM Part	IBM Part
TB 20/120M CMS cntrl	19496	22H2555
adpt card f/ 40MB int/ext	41650	22H2519
40MB int. archive	40465	22H3567
40MB ext. archive	41685	49H1326
525MB 5.25	28860	68H1326
320/525MB int	14259	22H2738
4GB DAT Int.	19994	22H2739
2/4GB DAT w/ cntrlr	16741	22H2808
2/4GB DAT ext w/o cntrlr	16742	22H2809

System Bds.	OEM Part	IBM Part
486D/20 w/o mem	22305	22H2829
486D/25 w/o mem	22302	22H2831
486D/33 w/o mem	22304	22H2833
486D/50 w/o mem	25285	22H2837
486D/66 w/o mem	29913	48H9545
487D/25 w/o mem	22303	22H2835
486D/XX w/o mem	34542	52H9405
486D/XX w/o mem	34543	38H1964
486D/XX w/o mem	14558	48H6772
486P/20 w/o mem	23783	22H2843
486P/25 w/o mem	23786	48H8470
486P/33 w/o mem	23784	48H8467
486P/50 w/o mem	25286	48H9554
486P/XX w/o mem	34540	22H2840
486P/XX w/o mem	28712	22H2839
486P/XX w/o mem	34541	49H0252

Microprocessors

The microprocessors are a part of the processor

Video Boards	OEM Part	IBM Part
486P 1MB or 512K VRAM	17318	22H2796
ATI Ultra video board	17696	22H2798
Vantage Video Board	18692	22H3457
486D 512K VRAM	22210	55H1130
1024/16 color card	43073	22H2552
Ultrasaca	27239	47H5917
VGA 8-bit paradise	41638	22H2730
VGA 16-bit video	41779	49H1420
VGA w/ Dell BIOS	43088	68H2685

Cache/Shunt Cards	OEM Part	IBM Part
325/333P shunt card	16634	22H2819

Cables	OEM Part	IBM Part
4 wire Y	40012	49H0670
Data low profile chassis	42124	49H1511
Floppy 3 drive	43042	51H3517
Floppy drive	14644	48H6783
GPX 8'	42922	66H9800
HD IDE 40 pin dual	41755	49H1390
Hard drive	40470	49H0845
Hard drive aux LED	42964	66H9805
Hard drive data	41604	49H1284
Hard drive data IDE crd	42087	49H1509
IDE single drive	43043	66H9838
Keylock microswitch	42123	49H1510
LED low profile chassis	41765	49H1417
LED SDT	43383	49H1588
LED low profile chassis	41765	49H1417
SCSI MDT	43352	66H9849
TBU 40MB ext 34 pin	41788	66H9745
Universal HD/FD/Data	40470	49H0845

Miscellaneous	OEM Part	IBM Part
150W	17913	22H2805
224W lite-on	17916	48H7292
224W AC low emission	23319	22H2806
224W	14181	55H1820
2400bd int modem	43154	22H2740
9600bd int. w/ sw	29801	22H2822
4.5v Alkaline	20409	48H7821
Chip bd mnt, lithium batty	20610	47H4786