

# DOMUS LIFE

The **Olivetti Domus Life** product line consists of the following Personal Computer models:

- PCS Educator (in its different versions)
- PCS Television
- Familia 1 and Familia 2
- Familia
- PCS 44/C (Turn to the section M4-4x / M4-6x / PCS4xx)
- PCS 46/C (Turn to the section M4-4x / M4-6x / PCS4xx)

## PCS EDUCATOR

The PCS Educator is a multimedia system offering the following functions:

- Allows multimedia applications to be used and developed. This model, in fact, complies with the MPC (Multimedia Personal Computer) standard.
- Allows photographs stored on a CD to be displayed with the Kodak CD Player.

## CHARACTERISTICS

MODELS	
PCS Educator	Very first system version.
PCS SX 33 educator PCS DX2 66 educator	Second system version.
PLATFORM ON WHICH THE PCS EDUCATOR IS BASED ON	
Personal Computer used in the first system version	<b>PCS 44/C</b> , which uses the 25 MHz i486 CPU. Turn to the section M4-4x / M4-6x / PCS4xx for the characteristics of this personal computer model.
Personal Computer used in the second system version	For the PCS SX 33 Educator <b>MODULO M4-424 S</b> , which uses the 33 MHz i486 CPU.  For the PCS DX2 66 Educator <b>MODULO M4-464 S</b> , which uses the 66 MHz i486DX2 CPU. Turn to the section M4-4X4 / M4-4X4S / M4-4X2 / M4-4X2S for the characteristics of this Personal Computer model.
Casing of the Personal Computers on which the PCS Educators are based	The PCS Educator is based on the PCS 44/C Personal Computer uses the <b>Mircrotower case</b> .  The PCS SX 33 Educator and PCS DX2 66 Educator are based on the M4-424 S and M4-464 S Personal Computers and use the <b>SLIM BOX cases</b> .  The Francia I PCSSX 33 and PCSDX2 66 models use <b>TIN BOX cases</b>
AUDIO BOARD	
PCS Educator	Media Vision PAS 16
PCS SX 33 Educator PCS DX2 66 Educator	MPC MOZART audio board

<b>CD-ROM</b>	
PCS Educator	CDU 31/A (SONY)
PCS SX 33 Educator PCS DX2 66 Educator	CDU 33/A( SONY)
<b>SPEAKERS</b>	
PCS Educator	AR AV211
PCS SX 33 Educator PCS DX2 66 Educator	

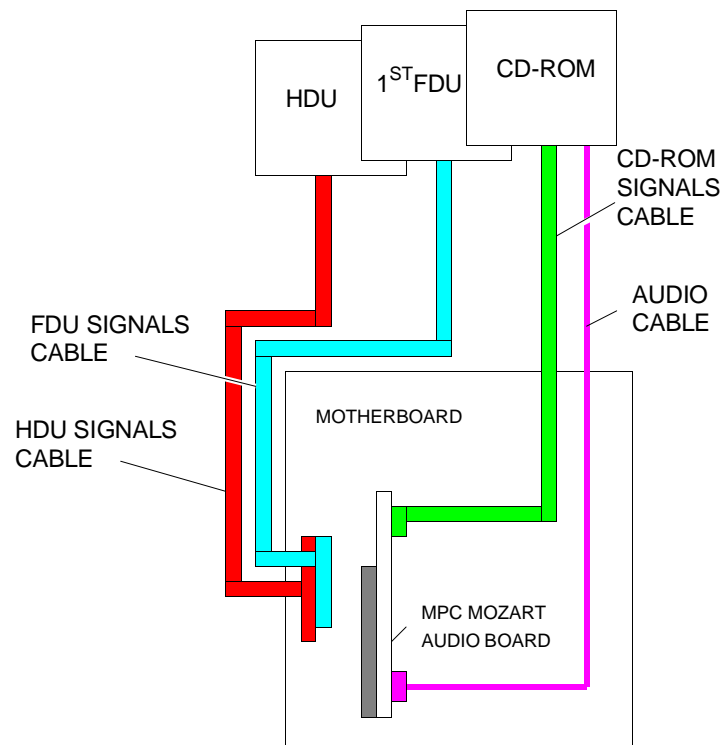
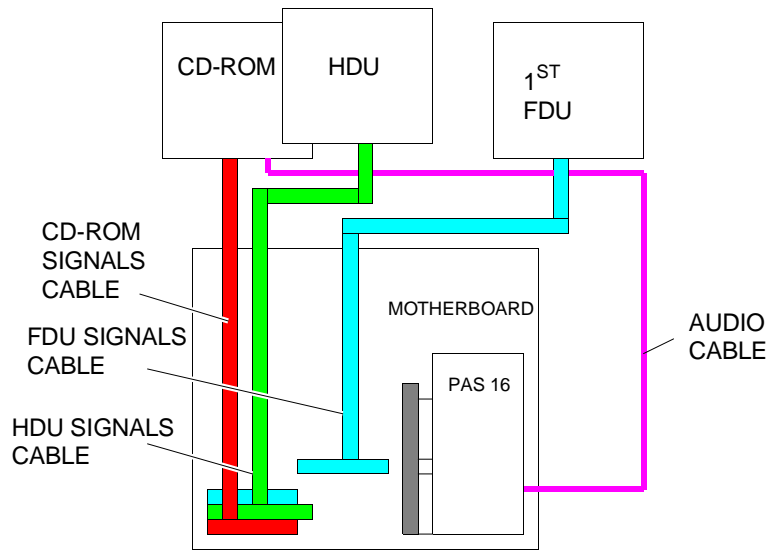
## SOFTWARE PREINSTALLED ON THE HARD DISK DRIVE

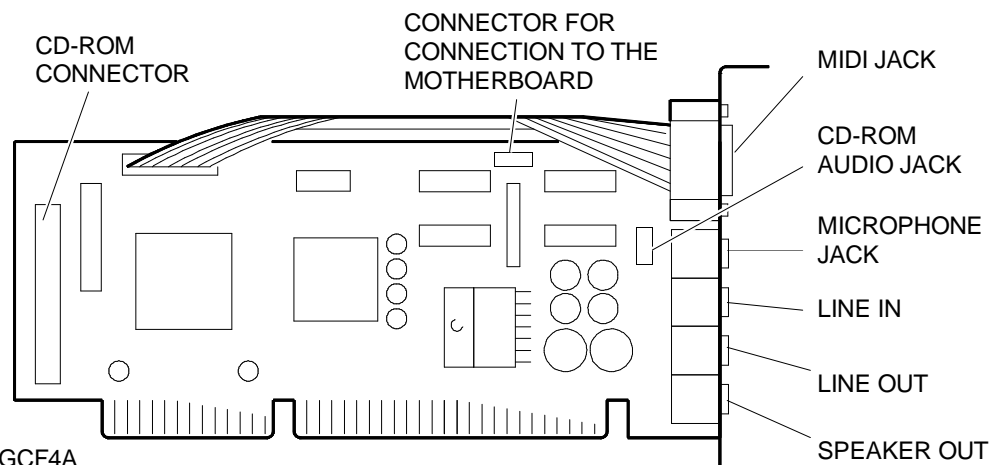
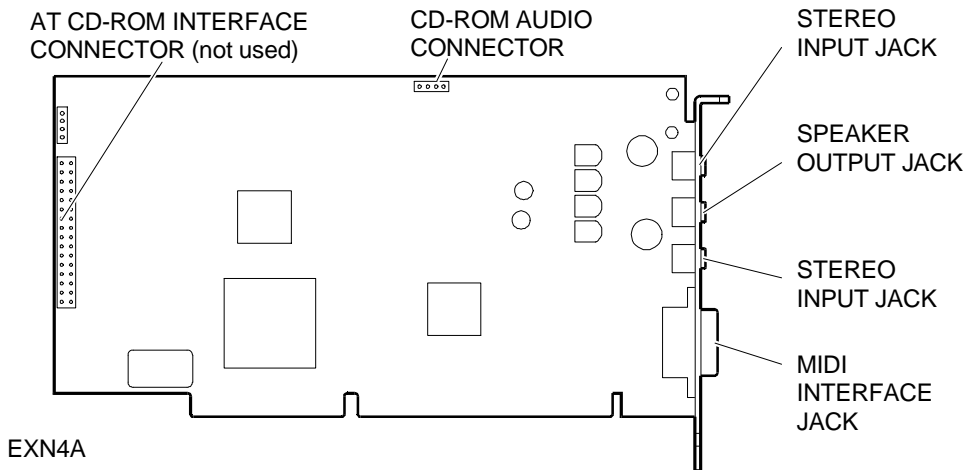
<b>PCS EDUCATOR</b>	
<b>SOFTWARE</b>	<b>DESCRIPTION</b>
MS MMpack	Microsoft system software
Photo CD Access SW	Kodak Photo CD management software
MS-DOS Rel. 6.0	Operating system
Windows 3.1	
Online documentation	For the MS-DOS operating system and Windows
EVD Driver	Enhanced video driver
<b>PCS SX 33 EDUCATOR AND PCS DX2 66 EDUCATOR</b>	
MS-DOS Rel. 6.2x	Operating system
Windows 3.1	
EVD Driver	Enhanced video driver
DomusLife intro sequence	
Online documentation	For the MS-DOS operating system and Windows
Lotus Organizer 1.1	Electronic diary
MS WinWorks 3.0	
IM-AGE Photo View	Kodak Photo CD management software
Sound Impression Audio SW	
Recording Session MIDI SW	

## CDs SUPPLIED WITH THE SYSTEM

### PCS Educator

- Columbus CD - An effective example on the use of the PCS Educator for education purposes.
- Audio CD - An effective example on the use of the PCS Educator with audio applications.
- Italian Art CD - Another example on the use of the PCS Educator for education purposes.
- MM Opera CD - A demonstration of the MPC concept and the titles of MM Opera CDs.  
(U. Eco, Ecology, Pinocchio operas)
- Backup CD - A backup copy of the preinstalled software.





#### PCS SX 33 Educator and PCS DX2 66 Educator

- Backup CD - A backup copy of the preinstalled software.
- Audio CD- An effective example on the use of the PCS Educator with audio applications.
- MM Opera CD - Il Bel Paese - Photo CD Player demos.
- MM Opera CD - The Magic World of Multimedia - A demonstration of the MPC concept and a list of the titles of MM Opera CDs.

#### CABLE CONNECTION DIAGRAM

##### PCS Educator

##### PCS SX 33 Educator / PCS DX2 66 Educator

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## MEDIAVISION PAS 16 AUDIO BOARD (For the PCS Educator)

## MPC MOZART BOARD (For the PCS SX 33 Educator and PCS DX2 66 Educator)

### CONFIGURATION

Since this board does not have any jumpers nor DIP-switches, it must be configured by means of a software program available on one of the following two media:

- On floppy diskettes supplied with the audio board
- Preinstalled on the hard disk of the system in which the audio board is installed. In this case the configuration diskettes will have to be created using the utilities that enable the preinstalled software to be downloaded onto diskette.

Following is the procedure for configuring this type of audio board:

- 1) Insert the configuration diskette into drive A.
- 2) Run the configuration program.
- 3) At a certain point the program will ask you this question:  
***Do You Want to Install Mozart Drivers for Windows?***
- 4) Answer **NO** if you only wish to use the board with the MS-DOS operating system.  
Answer **YES** if you wish to use this board under Windows.  
If you wish to use this board with the Windows Sound System, answer **NO** and enter a string in the AUTOEXEC.BAT file as explained further on.
- 5) The program will load onto hard disk the drivers that make the board work. At a certain point the program will ask for some of the board's operational parameters.  
These are:  
**Board I/O addresses** - Select among the following values:  
220 h (Default) - 240 h  
**Board DMA channel used** - Select among the following values:  
1 (Default) - 3  
**Interrupts used by the board** - Select among the following values:  
5 (Default) - 7 - 11  
**Sound Check enable or disable**  
Sound Check is enabled by default.  
**Game Port or joystick interface**  
Enabled - Disabled
- 6) Since a CD-ROM drive is connected to the board, this device's operating parameters will also have to be defined. These are:  
**CD-ROM drive model connected** - Select among the following models:  
None - Mitsumi - Sony (Sony must be selected for this system)  
Panasonic  
**Interrupt used by the CD-ROM** - Select among the following values:  
9 - 10 (Default) - 11  
**DMA channel used by the CD-ROM** - Select among the following values:  
NO (Default) - 5 - 6 - 7  
**CD-ROM I/O addresses** - Select among the following values:  
320 h - 330 h - 340 h - 360 h (Default)

Proceed as follows to use the board with **WINDOWS SOUND SYSTEM** (a Windows sound management environment):

- 1) Using any text editor, open the AUTOEXEC.BAT file and enter the following string:  
**C:\MOZART\MZTMODE WSS**
- 2) Enter into Windows and click on the Control Panel icon.
- 3) Click on the Drivers icon in the Control Panel window.
- 4) Select the Mozart Audio Device Driver which will allow the management of the board, then select Setup. The Setup environment will ask for the following operating parameters:
  - I/O addresses** - Select among the following values:  
530 h (Default) - 604 h - E80 h - F40 h - .... Other values
  - DMA channel** - Select among the following values:  
0 (Default) - 1 - 3
  - Interrupts** - Select among the following values:  
7 - 11 - 10 (Default)

#### NOTES ON COMPATIBILITY

BOARD OR HW/SW DEVICE	DESCRIPTION
CD-ROM drive models CDU31A and CDU33A	The SONY CD-ROM model CDU31A (single speed) has been replaced by the SONY double speed CD-ROM model CDU33A.

#### SYSTEM REGION SETUP

LEVEL	NOTES
Lev. 1.01	Allows User Disk level 1.01 to be automatically installed on the hard disk drive.
Lev. 1.02	This version requires BIOS 1.08 or later. With respect to the previous version, the following modifications are made: <ul style="list-style-type: none"><li>- The mouse, memory and hard disk tests have been modified.</li><li>- The video configuration utility has been modified so that new monitor can be configured.</li><li>- The CPU cache test has been modified.</li><li>- The shadow memory configuration utility has been modified.</li><li>- High-capacity hard disks can now be installed.</li></ul>
Lev. 1.04	This version requires BIOS 2.06 or later. The following modifications have been made with respect to version 1.01: <ul style="list-style-type: none"><li>- The CD-ROM tests have been modified: the CDI-DIA.EXE program can be used to check the operation of the SONY CD-ROM drive connected to either the audio board or system motherboard.</li><li>- The Mozart board tests have been modified.</li><li>- The floppy disk tests have been modified.</li></ul>

## PCS TELEVISION

The PCS Television Personal Computer model offers the following multimedia features:

- Possibility of viewing television pictures in a screen windows displayed under Windows.
- Possibility of capturing the television pictures and to covert these into files which can be used under Windows.

## CHARACTERISTICS

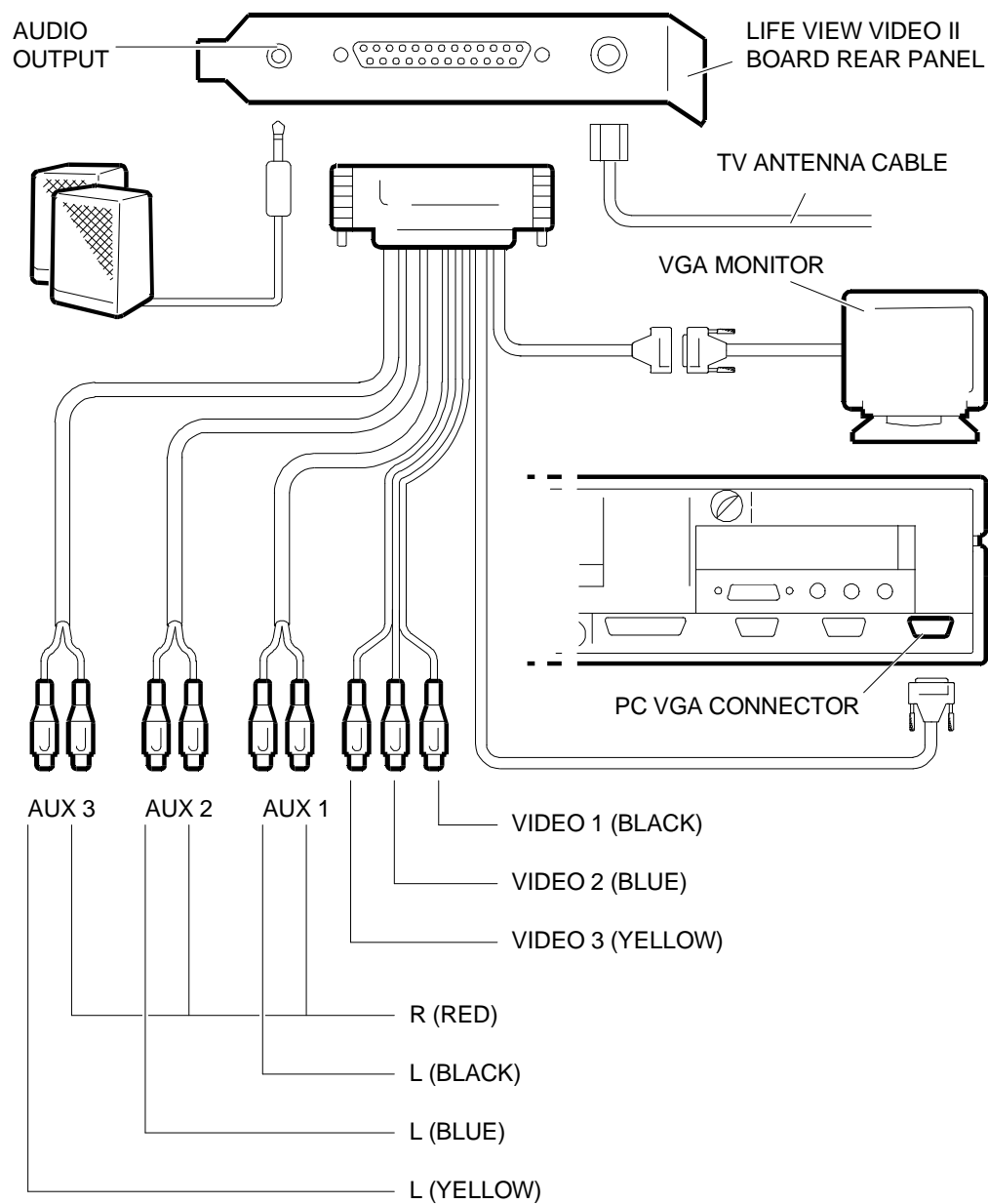
PLARFORM ON WHICH THE PCS EDUCATOR IS BASED	
Personal Computer used	<b>PCS 44/C</b> , which uses the 25 MHz i486 CPU. Turn to section M4-4x / M4-6x / PCS4xx for the characteristics of this Personal Computer model.
Case	Microtower
VIDEO BOARD	
LIFE VIEW VIDEO II video controller board	<p>Board characteristics:</p> <ul style="list-style-type: none"><li>- Interface: AT</li><li>- Power supply: +5 V, +12 V, -12 V</li><li>- On-board memory: 1 MB of VRAM</li><li>- Resolution: 4:1:1 YUV Digital Image Format</li><li>- Display window: Mobile and sizeable</li><li>- Video signals: Three, simultaneously active:<ul style="list-style-type: none"><li>- Software-selectable video input</li><li>- Composite video input</li><li>- PAL/NTSC/SECAM input (software-selectable)</li></ul></li><li>- Audio: Two stereo out channels 2 W output per channel</li><li>- Tuning:<ul style="list-style-type: none"><li>- VHF/UHF band support</li><li>- Support for PAL B/G, PAL, PAL D/K, PAL Australia, NTSC Japan, NTSC USA.</li><li>- Software-selectable channel in Windows 3.0 and 3.1</li><li>- Automatic tuning and TV channel storage</li><li>- 1 Vpp composite video output</li><li>- 1 Vpp audio output</li></ul></li></ul>
SPEAKERS	
Speakers	AR AV211 with an 8 Ohm impedance

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## PREINSTALLED SOFTWARE

SOFTWARE	DESCRIPTION
MS-DOS Rel. 6.0	Operating system
Windows 3.1	
Online documentation	For the MS-DOS operating system and Windows
TV Control SW	Video board management program
Image Capture SW	Software allowing video images to be captured
Editing SW	Software allowing the captured images to be edited

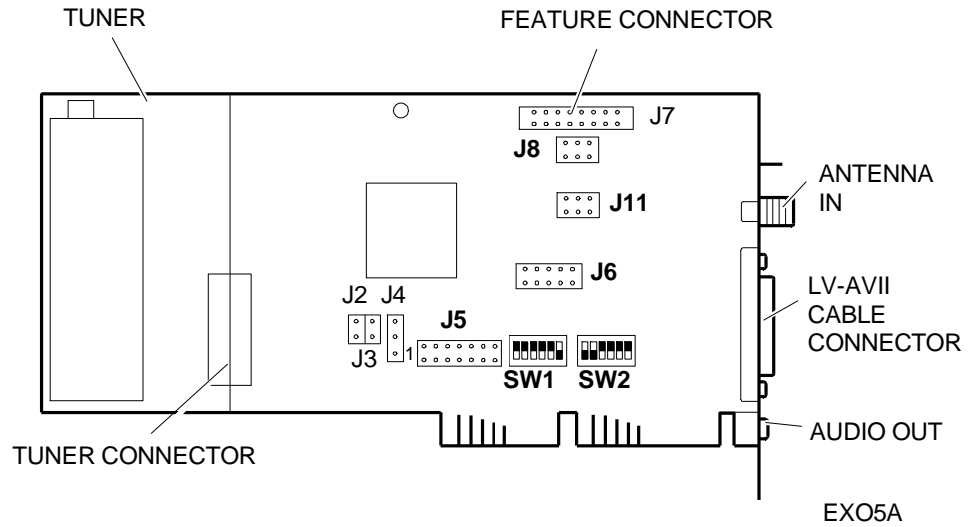
## CABLE CONNECTION DIAGRAM



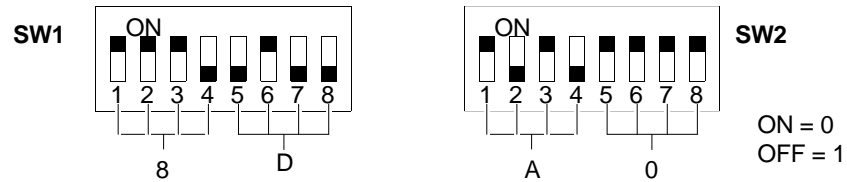
EXO4A



## LIFE VIEW VIDEO II VIDEO CONTROLLER BOARD



### DIP-Switch SW1 and SW2 - I/O Address Configuration

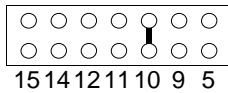


**SW1** sets the address **Low Byte**, **SW2** sets the **high Byte**. Default I/O address is **0AD8 h**. The following table shows all the possible configurations of SW1 and SW2.

SW2 High Byte										SW1 Low Byte									
A1	A2	A3	A4	h	A5	A6	A7	A8	h	A1	A2	A3	A4	h	A5	A6	A7	A8	h
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	1
0	1	0	0	2	0	1	0	0	2	0	1	0	0	2	0	1	0	0	2
1	1	0	0	3	1	1	0	0	3	1	1	0	0	3	1	1	0	0	3
0	0	1	0	4	0	0	1	0	4	0	0	1	0	4	0	0	1	0	4
1	0	1	0	5	1	0	1	0	5	1	0	1	0	5	1	0	1	0	5
0	1	1	0	6	0	1	1	0	6	0	1	1	0	6	0	1	1	0	6
1	1	1	0	7	1	1	1	0	7	1	1	1	0	7	1	1	1	0	7
0	0	0	1	8	0	0	0	1	8	0	0	0	1	8	0	0	0	1	8
1	0	0	1	9	1	0	0	1	9	1	0	0	1	9	1	0	0	1	9
0	1	0	1	A	0	1	0	1	A	0	1	0	1	A	0	1	0	1	A
1	1	0	1	B	1	1	0	1	B	1	1	0	1	B	1	1	0	1	B
0	0	1	1	C	0	0	1	1	C	0	0	1	1	C	0	0	1	1	C
1	0	1	1	D	1	0	1	1	D	1	0	1	1	D	1	0	1	1	D
0	1	1	1	E	0	1	1	1	E	0	1	1	1	E	0	1	1	1	E
1	1	1	1	F	1	1	1	1	F	1	1	1	1	F	1	1	1	1	F

**NOTE:** Any hardware changes made to board addresses must be followed by the relative software configuration changes. These software changes can be made using the board's software configuration utility (SETUP).

#### Jumper Block J5 - Interrupt selection



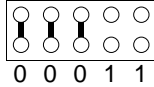
IRQ10 is the default setting

#### Jumper J4 - I/O port



Pins 2-3 jumpered is the default setting, indicating addresses AD6 and AD7

#### Jumper Block J6 - Tuner selection

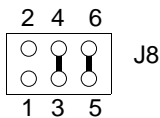


Jumper installed = 0  
Jumper not installed = 1

The board can support different types of tuners depending on the different areas of use. Jumper block J6 allows you to select the different types of tuners.

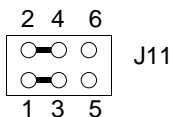
TUNER	JUMPER BLOCK J6
NTSC USA	00000
NTSC JPN	00001
PAL B, G	00010
PAL B, G ITALIA	<b>00011</b>
PAL D, K	00100
PAL AUS	00101
PAL I	00110
SECAM	00111
PAL E/M2	01000
PAL H	01001
PAL K	01010
PAL E/ M2 ITALIA	01011
PAL L	01100
PAL T	01101
SECAM E/M2	01110

#### Jumpers J8 and J11 - Tuner or Teletext selection



##### Jumper J8

- On 5 and 6 No tuner / teletext
- On 3 and 4 With tuner (default)
- On 5 and 6
- On 1 and 2 With teletext
- On 4 and 6



##### Jumper J11

- On 3 and 5 No tuner / teletext
- On 4 and 6
- On 1 and 3 With tuner (default)
- On 2 and 4
- On 1 and 3 With teletext
- On 2 and 4

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## SYSTEM REGION SETUP

LEVEL	NOTES
Lev. 1.00	Allows User Disk level 1.00 to be automatically installed on the hard disk.
Lev. 1.01	Allows User Disk level 1.01 to be automatically installed on the hard disk.
Lev. 1.03	Allows User Disk level 1.03 upd 1 to be automatically installed on the hard disk.
Lev. 1.04 upd 1	Allows User Disk level 1.04 upd 1 to be automatically installed on the hard disk.

## FAMILIA 1 and FAMILIA 2

This product line has only been commercialized on the Italian market and consists of the following Personal Computer models:

FAMILIA 1 M300-02F (Turn to the section M300-02 M300-02F)

FAMILIA 2 PCS 44/C with BA2033 motherboard (Turn to the section M4-4x / M4-6x / PCS4xx)

### CHARACTERISTICS

	FAMILIA 1	FAMILIA 2
Personal Computer	M300-02F	PCS 44/C with BA2033 motherboard
Processor	80386 SX	i486 SX
Clock	25 MHz	25 MHz
Memory	2 MB expandable to 10 MB	4 MB expandable to 36 MB
Video controller	VGA PLUS	VGA Enhanced
Ports	- 9-pin serial - Parallel - Joystick	- 9-pin serial - Parallel - Joystick
AT intelligent hard disk	85 MB or 120 MB	120 MB or 170 MB or 240 MB or 270 MB
Floppy disk	1.44 MB	1.44 MB

### PREINSTALLED SOFTWARE

- MS-DOS 6.0 (Italian version)
- Windows 3.1 (Italian version)
- Online documentation for DOS and Windows
- Lotus Organizer 1.0 (Italian version)
- MS-WORKS 2.0 (Italian version)
- PERSONAL BOOK (Italian version)
- PC COSMOS (Italian version)
- Sporting games (English version)
- Cartoons (English version)
- MS ENTERTAINMENT PACK FOUR (English version)
- Windows Entertainment Pack (Italian version)
- EASY ENGLISH (Italian version)
- Utilities.

### NATIONAL VERSIONS

Based on the Familia 2 Personal Computer, the following versions have been nationalized:

- PCS Familia France
- PCS Familia U.K.
- PCS Familia Germany
- PCS Familia Spain

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## SYSTEM REGION SETUP

LEVEL	NOTES
Lev. 1.00	Allows User Disk level 1.00 to be automatically installed on the hard disk.
Lev. 1.01	Allows User Disk level 1.01 to be automatically installed on the hard disk.
Lev. 1.03	Allows User Disk level 1.03 upd 1 to be automatically installed on the hard disk.
Lev. 1.04 upd 1	Allows User Disk level 1.04 upd 1 to be automatically installed on the hard disk.

## FAMILIA

The Familia Personal Computer product line is based on the **MODULO M4-422 S** model which uses a 33 MHz i486 CPU - Turn to the section M4-4X4 / M4-4X4S / M4-4X2 / M4-4X2S for the characteristics of this Personal Computer model.

### CHARACTERISTICS

Personal Computer	MODULO M4-422 S
Processor	i486 SX
Clock	33 MHz
Memory	4 MB expandable to 64 MB
Video controller	Cirrus CL-5424, integrated on the motherboard of this Personal Computer and equipped with a 512 KB video RAM expandable to 1 MB. <b>Resolutions</b> <b>Refresh Rate</b> 640x480x256      60 or 72 Hz 800x600x256      56, 60 or 72 Hz 1024x768x16      72 or 87i Hz 640x480x64K      60 or 72 Hz * 800x600x64K      56 or 60 Hz * 1024x768x256      60, 70, 72, 87i Hz * * With 1 MB of memory
Ports	- Two 9-pin serial - AT - IEEE 1248 parallel
AT intelligent hard disk drive	210 or 420 MB
Floppy disk	1.44 MB

### PREINSTALLED SOFTWARE

SOFTWARE	LANGUAGE				
	ITA	UK	SPA	FRA	USA
MS-DOS 6.2	X	X	X	X	X
Windows 3.1	X	X	X	X	X
Online documentation	X	X	X	X	X
Driver	X	X	X	X	X
DomusLife intro sequence	-	-	-	-	-
Lotus Organizer 1.1	X	X	X	X	X
MS-WIN WORKS 3.0	X	X	X	X	X
MS MONEY 3.0	-	X	-	X	X
MS "The best of Win Entert. Pack	X	X	X	X	X
MS Creative Writer	X	X	-	X	X

