

# TECHNICAL NOTE



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Raised by: TC

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REF 211

(6 pages)

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## SD8, SD9, SD10 MIXER

### **BIOS Settings for use with Kontron PM CPU**

To access BIOS.

Shut normally (if possible) and turn off power. Switch power on.

Press F2 on keyboard repeatedly whilst Logo and "console starting" shows. Expect error beeps. See BIOS page appear. If there is no screen operation, see notes at end.

After setting BIOS exit and save as required, the engine will then launch windows and SD8. Shut down normally and power off cycle to confirm all settings operational.

Note BIOS is saved in flash memory and does not require a working PC battery to support these settings. The battery is required for the real time clock only.

Important – these setting change considerably from BIOS "default settings". DO NOT default BIOS. This will stop the mixer screen operating. See notes at end if defaults have been set.

These setting apply to

Operating System: Windows XP embedded

BIOS Version: <MODBR097>

Other versions may be introduced from time to time. In general, setting will remain unchanged. Lines shown here that are not present or those present that are not listed here are unimportant to mixer use and can be left unchanged.

\continued

**1. MAIN SETTINGS Page:**

|                         |                  |                             |
|-------------------------|------------------|-----------------------------|
| <b>Main</b>             |                  |                             |
| System Time             | (Set to Current) |                             |
| System Date             | (Set to Current) |                             |
|                         |                  |                             |
| Legacy Diskette A       | (Disabled)       |                             |
| Legacy Diskette B       | (Disabled)       |                             |
|                         |                  |                             |
| Primary Master          | (Auto)           |                             |
| Primary Slave           | (None)           | see Note below              |
| Secondary Master        | (None)           | “                           |
| Secondary Slave         | (None)           | “                           |
|                         |                  |                             |
| Smart Device Monitoring | (Enabled)        |                             |
|                         |                  |                             |
| System Memory           | 640KB            | May vary with Console model |
| Extended Memory         | 502MB            | “                           |
| BIOS Date               | 10/12/2007       |                             |

Note : Click on [NONE] reveals [AUTO], set to [NONE].

**2. ADVANCED SETTINGS Page:**

|                            |                             |                           |
|----------------------------|-----------------------------|---------------------------|
| <b>Advanced</b>            |                             |                           |
| Advanced Chipset Control > | Enable Memory Card          | (Disabled)                |
|                            | Graphics Engine 1           | (Enabled)                 |
|                            | Graphics Engine 2           | (Enabled)                 |
|                            | Graphics Memory             | (UMA=8MB)                 |
|                            | Graphics Aperature          | (256MB)                   |
|                            | Assign IRQ to VGA           | (Disabled)                |
|                            | Serial Interupt Mode        | (Quiet)                   |
|                            |                             |                           |
| PCI/PNP Configuration>     | PNP OS Installed            | (Yes)                     |
|                            | Reset Configuration Data    | (No)                      |
|                            | Secured Setup Configuration | (Yes)                     |
|                            |                             |                           |
|                            | PCI Device Slot#1           | All Entries Set to Below  |
|                            | PCI Device Slot#2           | Option ROM Scan (Enabled) |
|                            | PCI Device Slot#3           | Enable Master (Disabled)  |
|                            | PCI Device Slot#4           | Latency Time (Default)    |
|                            |                             |                           |
|                            | PCI IRQ LINE 1              | (Auto Select)             |
|                            | PCI IRQ LINE 2              | (Auto Select)             |
|                            | PCI IRQ LINE 3              | (Auto Select)             |
|                            | PCI IRQ LINE 4              | (Auto Select)             |
|                            | Onboard LAN IRQ LINE        | (Auto Select)             |
|                            | ONBOARD USB EHCI IRQ LINE   | (Auto Select)             |

|                                      |            |             |
|--------------------------------------|------------|-------------|
| PCI/PNP ISA UMB Region Exclusion >>  | CC00-CFFF  | (Available) |
|                                      | D000-D3FF  | (Available) |
|                                      | D400-D7FF  | (Available) |
|                                      | D800-DBFF  | (Available) |
|                                      | DC00-DFFF  | (Available) |
|                                      |            |             |
| PCI/PNP ISA IRQ Reserve Exclusion >> | IRQ 3      | (Reserved)  |
|                                      | IRQ 4      | (Available) |
|                                      | IRQ 5      | (Available) |
|                                      | IRQ 7      | (Available) |
|                                      | IRQ 9      | (Available) |
|                                      | IRQ 10     | (Reserved)  |
|                                      | IRQ 11     | (Reserved)  |
|                                      | IRQ 12     | (Available) |
|                                      |            |             |
| Default Primary Video Adapter        | (PCI)      |             |
| Assign IRQ to SMB                    | (Disabled) |             |

|                     |                            |                 |
|---------------------|----------------------------|-----------------|
| Memory Cache >      | Memory Cache               | (Enabled)       |
|                     | Cache System Bus Area      | (Write Protect) |
|                     | Cache Video BIOS Area      | (Write Protect) |
|                     | Cache Base 0_512K          | (Write Back)    |
|                     | Cache Base 512K-640K       | (Write Back)    |
|                     | Cache Extended Memory Area | (Write Back)    |
|                     | Cache D000-D3FF            | Disabled        |
|                     | Cache D400-D7FF            | Disabled        |
|                     | Cache D800-DBFF            | Disabled        |
|                     | Cache DC00-DFFF            | Disabled        |
|                     |                            |                 |
| I/O Device Config > | Local Bus IDE Adapter      | (Both)          |
|                     | Primary IDE UDMA 66/100    | (Enabled)       |
|                     | Secondary IDE UDMA66/100   | (Enabled)       |
|                     |                            |                 |
| USB Options >>      | USB UHCI Host Controller 1 | (Enabled)       |
|                     | USB UHCI Host Controller 2 | (Enabled)       |
|                     | USB EHCI Host Controller   | (Disabled)      |
|                     |                            |                 |
|                     | Legacy USB Support         | (Enabled)       |
|                     | EHCI Legacy Support        | (Enabled)       |
|                     |                            |                 |
|                     | AC97 Audio Controller      | (Disabled)      |

|                     |                             |                        |
|---------------------|-----------------------------|------------------------|
| LAN Options >>      | LAN MAC Address (ETMI)      | 00 E0 4B 1B CE 5F (eg) |
|                     | Onboard LAN controller      | (Enabled)              |
|                     | Onboard LAN PXE ROM         | Disabled               |
|                     | Enable WOL                  | (OS Control)           |
| SI Options >>       | Serial Port A               | (Enabled)              |
|                     | Base I/O Address            | (3F8)                  |
|                     | Interrupt                   | (IRQ 4)                |
|                     | Serial Port B               | (Disabled)             |
|                     | Onboard LPT                 | (Disabled)             |
| Keyboard Features > | Numlock                     | (Off)                  |
|                     | Key Click                   | (Disabled)             |
|                     | Keyboard Auto Repeat Rate   | (30/sec)               |
|                     | Keyboard Auto Repeat Delay  | (1/2 sec)              |
| Hardware Monitor >  | VCC 3.3V Voltage = 3.3V     | ± 0.2V                 |
|                     | 5Vsb Voltage = 5V           | + 0.1V - 0.3V          |
|                     | CPU Core V = 1V             | ± 0.2V                 |
|                     | Bat V = 3 V                 | ± 0.2V                 |
|                     | CPU temp = 70°C             | < 85°C                 |
|                     | CPU Fan Speed = No Function |                        |

|                     |                               |            |
|---------------------|-------------------------------|------------|
| Watchdog Settings > | Mode                          | (Disabled) |
| Display Control >   | Display Mode                  | (CRT+LFP)  |
|                     | JDA Revision                  | 1.5        |
|                     | Flat Panel Type               | (XGA 1x18) |
|                     | Flat Panel Scaling            | (Centered) |
|                     | Default Primary Video Adapter | (PCI)      |
|                     | Assign IRQ to VGA             | (Disabled) |
| Miscellaneous >     | Floppy Check                  | (Disabled) |
|                     | Summary Screen                | (Disabled) |
|                     | Quick Boot Mode               | (Enabled)  |
|                     | Extended Memory testing       | (None)     |
|                     | Dark Boot                     | (Enabled)  |
|                     | Halt on Errors                | (No)       |
|                     | PS/2 Mode                     | (Enabled)  |
|                     | Large Disk Access Mode        | (DOS)      |
|                     | Spread Spectrum               | (Disabled) |

**3. SECURITY SETTINGS Page:**

|                         |            |  |
|-------------------------|------------|--|
| <b>Security</b>         |            |  |
| Supervisor Password is: | (Clear)    |  |
| User Password is:       | (Clear)    |  |
| Set Supervisor Password | (Enter)    |  |
| Set User Password       | (Enter)    |  |
| Fixed Disk Boot Sector  | (Normal)   |  |
| Virus Check Reminder    | (Disabled) |  |
| System Backup Reminder  | (Disabled) |  |
| Password on Boot        | (Disabled) |  |
| Password on Bootmenu    | (Disabled) |  |

**4. POWER SETTINGS Page:**

|                       |                                   |            |
|-----------------------|-----------------------------------|------------|
| <b>Power</b>          |                                   |            |
| Enabled ACPI          | (No)                              |            |
| Thermal Management >  | Automatic Thermal Control Circuit | (TM1)      |
|                       | Power Savings                     | (Disabled) |
|                       | Hard Disk Timeout                 | (Disabled) |
| Wake Up Events >      | Wake on Mouse Activity            | (Enabled)  |
|                       | Wake on Keyboard Activity         | (Enabled)  |
|                       | Wake on Serial Port A Activity    | (Enabled)  |
|                       | Wake on Serial Port B Activity    | (Enabled)  |
| Resume on Modem Ring  | (Off)                             |            |
| Resume on Time        | (Off)                             |            |
| Resume Time           | (00.00.00)                        |            |
| Power Supply          | (AT)                              |            |
| Power Button Function | (Power Off)                       |            |
| Power Loss Control    | (Last State)                      |            |

**5. BOOT UTILITIES Page:**

|                           |                       |  |
|---------------------------|-----------------------|--|
| Boot Priority Order >     | 1 IDE 0 :- PQI (PM)   |  |
|                           | 2 IDE 1               |  |
|                           | 3 IDE 2               |  |
|                           | 4 IDE 3               |  |
|                           | 5 IDE CD              |  |
|                           | 6 USB KEY             |  |
|                           | 7 USB CDROM           |  |
|                           | 8                     |  |
|                           |                       |  |
| Exclude From Boot Order > | USB FDC               |  |
|                           | USB HDD               |  |
|                           | USB ZIP               |  |
|                           | USB LS120             |  |
|                           | PCI BEV               |  |
|                           | PCI SCSI              |  |
|                           | Bootable Add in Cards |  |

**Reset BIOS defaults note:**

Should BIOS defaults be set, the internal screen of the SD8 will not operate. In order to access the BIOS screen, connect a regular PC monitor to the mixer overview screen connection.

In default mode, the BIOS screen will show on this. After saving settings and rebooting the mixer PC, the mixer screen will become active.

In default mode the BIOS screen will show on this screen. After saving settings and rebooting the engine PC, the mixer screens will become active. Expect to get a “new hardware found” window the PCI graphics card which should be cancelled to continue normally.

It is likely that these windows will be hiding behind the SD8 application so it may not be obvious what is going on. Use the Windows ALT/TAB function to get to these windows in order to cancel them.

Provided “Ready On” is enabled, the settings for the drivers for the graphics cards will come back to normal.