

Enterprise-IV Motherboard

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CAUTION: STATIC ELECTRICITY CAN DAMAGE THE COMPONENTS ON THIS CARD. MAKE SURE THAT YOU ARE WEARING AN ANTI-STATIC WRIST BRACELET WHEN YOU TAKE THE CARD OUT OF THE ANTI-STATIC BAG.

1 Introduction

The Enterprise-IV Motherboard has seven EISA slots, two of which have local bus connectors, and a 66MHz DX2 486 processor. There are also on-board disk controllers (which are not used in the Lightworks) and built-in serial and parallel ports which replace the plug-in I/O card used with other motherboards.

- ☰ A rear-panel connector bracket is used to provide connections to the 25-pin parallel port (printer) and 9-pin serial port COM1 (VTR control). The connection to COM2 is internal from the console connector wiring loom.

☞ Note: The internal wiring connections to COM2 from the console connector may be different to those on the internal COM port on a plug-in I/O card. If you are fitting the Enterprise IV as a replacement for a different type of motherboard, then you may need to rewire the 10-way header connector to COM2. Please check the wiring with that shown in *Erreur ! Source du renvoi introuvable.*, below.

☞ Instructions for gaining access to the motherboard in the Main Crate are given in the *Technical Manual*. When you dismantle it, make a note of what cards and internal connectors go where. This data sheet provides details of the setup of the Enterprise IV motherboard.

2 Memory Configuration

This motherboard uses 72pin SIMMs, each with a capacity of 16MBytes arranged as 4Mx36. For Lightworks machines, one or two SIMMs may be fitted to give either 16MB or 32MB:

- 16MB as 1 SIMM in Bank 0
- 32MB as 2 SIMMs in Banks 0 and 1.

Once installed, the BIOS automatically detects the number of SIMMs installed and configures the memory control hardware accordingly. The EISA memory control hardware must, however, be set up using the EISA Configuration Utility (*see below*).

3 Enterprise-IV Motherboard Setup

All the jumpers should be fitted as shown in the - *Enterprise-IV* Motherboard diagram (these are all factory set and should not normally need to be altered).

When the new motherboard has been installed, the internal connections made, the plug-in cards fitted and the slide-out tray secured, connect the external cables and switch the equipment on.

The motherboard BIOS and hardware control must now be set up using the CMOS setup utility

The SETUP program is accessed while the system is carrying out its self-checking procedures. When the following message is displayed, immediately press the <Delete> key.

Hit , if you want to run Setup

Referring to the *CMOS Settings Data Sheet*, select each of the three 'Setup' sections in turn from the main menu and set the options as follows:

3.1 Standard CMOS Setup

```
Hard disk C: type: Not installed
Hard disk D: type: Not installed
Floppy drive A: : 1.44 MB, 3.5"
Floppy drive B: : Not installed
Primary display : VGA/EGA/PGA (or Monochrome for Hercules card)
Keyboard       : Installed
```

3.2 Advanced CMOS Setup

Typematic Rate Programming	: Enabled
Typematic Rate Delay (msec)	: 500
Typematic Rate (Chars/Sec)	: 30
Mouse Support Option	: Disabled
Above 1Mb Memory Test	: Enabled
Memory Test Tick Sound	: Disabled
Memory Parity Error Check	: Enabled
System Boot Up Num Lock	: Off
Floppy Drive Seek At Boot	: Enabled
System Boot Up Sequence	: A:, C:
System Boot Up CPU Speed	: High
External Cache Memory	: Enabled
Internal Cache Memory	: Enabled
Password Checking Option	: Setup
Video ROM Shadow C000,32k	: Cached
Adapter ROM Shadow C800,32k	: Disabled
Adapter ROM Shadow D000,64k	: Disabled
Adapter ROM Shadow E000,64k	: Disabled
System ROM Shadow F000,64k	: Cached
Shadow RAM Write Protection	: Enabled
BootSector Virus Protection	: Disabled
LBD Sampling Point	: 2T
Cache Write Back	: Enabled
Non-Cacheable Area 1	: DRAM
Non-Cacheable Area 1 Size	: 0 KB
Non-Cacheable Area 1 Start	: Disabled
I/O Recovery Select	: 11 BCLKs
Hidden Refresh	: Disabled

3.3 Advanced Chipset Setup

On Board Serial Port 1	: 3F8h
On Board Serial Port 2	: 2F8h
On Board Parallel Port	: 3E8h
On Board Floppy Controller	: Disabled
On Board IDE Controller	: Disabled
On Board Serial Port 1 FIFO	: Disabled
On Board Serial Port 2 FIFO	: Disabled

☞ Note: Do not select the 'Auto Configuration' option from the Setup utility main menu as most of the options will be incorrectly set.

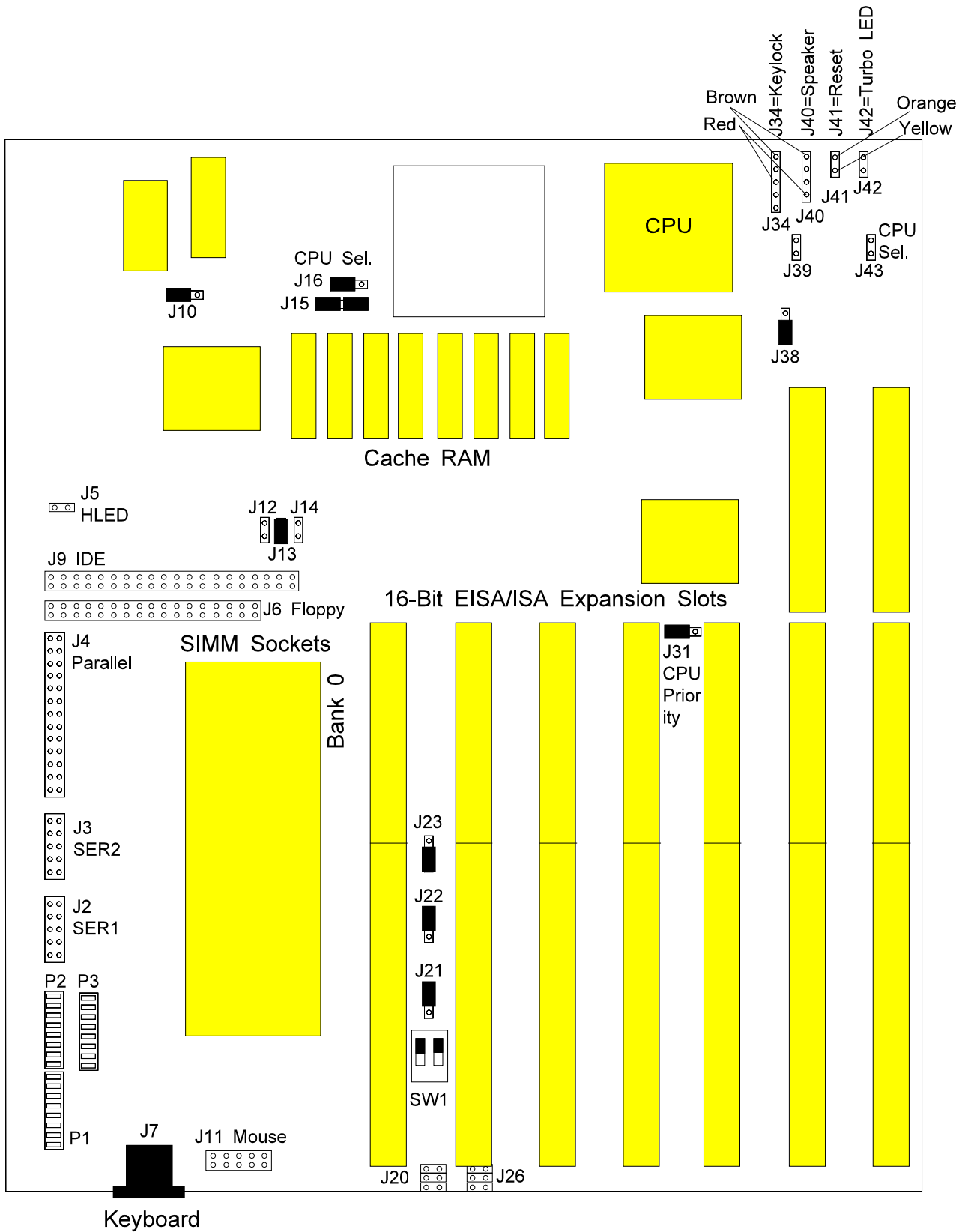


Fig. 1 - Enterprise-IV Motherboard

