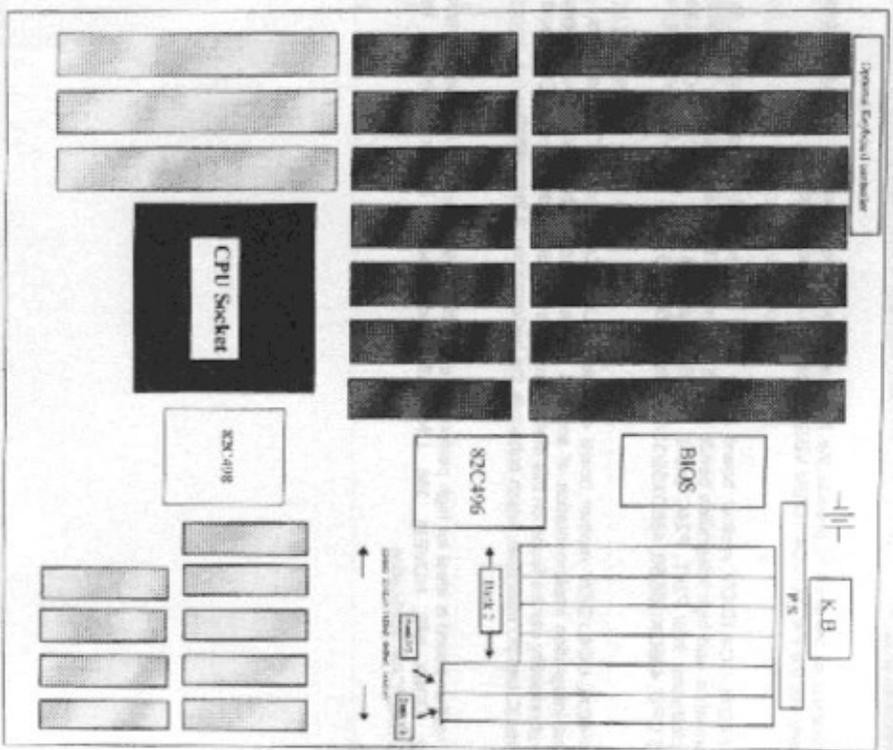


II GENERAL SPECIFICATIONS

- UM82C498 and UM82C498 Chipsets
- Flexible integrated DRAM Controller
- Support Multi-Type DRAM
- Support up to 192MB DRAM, 64 MB on 30 pins SIMM and 128 MB on 72 pins SIMM
- Built-in Cache Controller:
 - Support L1 write back or write through cache
 - 8 KB Internal cache
 - Support up to 256 KB External cache
 - Multi-Type SRAM: 8KB, 32KB, 64KB
- Built-in Keyboard Controller with outside option
- Provide Green PC power management:
 - Programmable CPU Clock down to 0 MHz
 - 4 power management mode: ON, STANDBY, INACTIVE, OFF MODES
 - Programmable CPU clock down to 0 MHz
 - Fully Support Microsoft Auto Power Management
- Seven 16-bit Input/Output (I/O) slots
- Three VESA Local Bus slots

F4DXL-UC4.1D/DV mother board lay-out



II GENERAL SPECIFICATIONS

- UMS2C496 and UMS2C498 Chipsets
- Flexible integrated DRAM Controller
- Support Multi-Type DRAM
 - Support up to 192MB DRAM, 64 MB on 30 pins SIMM and 128 MB on 72 pins SIMM
- Built-in Cache Controller:
 - Support L1 write back or write through cache
 - 8 KB internal cache
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- Seven 16-bit Input/Output (I/O) slots
- Three VESA Local Bus slots

VESA CARD INSTALL OPERATION

The mother board consists of Three (3) VESA Local Bus slots, each of them can be served as Master/Slave. The following jumper selection is needed for installing the VESA Local Bus Add-On cards.

VL BUS OPTION

| | CLOSE | OPEN |
|------|--------------------------|---------------------------|
| JP21 | *For VESA clock > 33 MHz | *For VESA clock <= 33 MHz |
| JP22 | For VESA 1 WS | *For VESA 0 WS |

* Factory Default Setting

CPU (MICROPROCESSOR) INSTALL SELECTION

| CPU | JP11 | JP12 | JP13 | JP17 | JP18 | JP19 |
|--------------------|------------------|------------------|----------|----------|----------|----------|
| 486SX | OPEN | 2-3 | 2-3 | OPEN | OPEN | OPEN |
| *486DX | OPEN | 2-3 | 1-2, 3-4 | 1-2 | OPEN | OPEN |
| 486DX-SL | 1-2 | 1-2 | 1-2, 3-4 | 1-2 | 5-6 | 1-2, 3-4 |
| P24D | 1-2, 4-5 | 1-2, 4-5 | 1-2, 3-4 | 1-2 | 3-4, 5-6 | 1-2, 3-4 |
| P24T | 1-2 | 1-2 | 1-2, 3-4 | 2-3 | 5-6 | 1-2, 3-4 |
| M6 | 1-2, 3-4, 5-6 | 1-2, 3-4, 5-6 | 2-3 | OPEN | 2-3, 4-5 | 2-3, 4-5 |
| M7 | 1-2, 3-4, 5-6 | 1-2, 3-4, 5-6 | 1-2, 3-4 | 1-2 | 2-3, 4-5 | 2-3 |
| UMC 486 | 2-3 | 2-3 | 2-3 | 3-4 | 1-2 | OPEN |
| AMD 486 DXL/DX2 | 2-3 | 2-3 | 1-2, 3-4 | 1-2, 3-4 | 1-2 | OPEN |
| ⓂAMD 486 DX2-50 | 2-3 | 2-3 | 1-2, 3-4 | 1-2, 3-4 | 1-2 | OPEN |

Remark: For using AMD486 DX2-50 CPU, a wire jumper is needed between pin 4 of JP12 and pin 3 of JP20. There is no wire jumper needed when using DX2-50 or DX2-66 MHz CPU.

CPU POWER SETTING

| | JP14 | JP15 | JP16 | JP23 |
|--------|------|------|------|-------|
| 3.3 V | 1-2 | 1-2 | 1-2 | CLOSE |
| 3.6 V | 1-2 | 1-2 | 1-2 | OPEN |
| *5.0 V | 2-3 | 2-3 | 2-3 | OPEN |

WARNING FOR 3.3 V and 3.6V CPU

- 1) For using 3.3 V OR 3.6V CPU, a Voltage Regulator LT1086 should be used on U24
- 2) Adjust Jumpers JP14 - JP15, & JP23 as shown in CPU Power Setting of INSTALLATION Section.

CPU SPEED SELECTION (CLOCK SPEED SELECTION)

| CPU CLOCK | JP4 | JP5 | JP6 |
|-----------|-----|-----|-----|
| 25 MHz | OFF | OFF | ON |
| *33 MHz | ON | ON | ON |
| 40 MHz | OFF | ON | ON |
| 50 MHz | ON | OFF | OFF |

V JUMPER/CONNECTOR SELECTION

Please kindly take note about this session for we will discuss all the jumpers/connectors which are on the F4DXL-UC4.1D/DV mother board.

5.1 CONNECTOR SUMMARY

| CONNECTOR | FUNCTION |
|--------------|---------------------------------|
| KB1 | KEYBOARD CONNECTOR |
| JP1 | CONNECTOR FOR EXTERNAL BATTERY |
| JP26/RESET | HARDWARE RESET SWITCH CONNECTOR |
| JP27/TBSW | TURBO SWITCH CONNECTOR |
| D1/TBLED | TURBO LED CONNECTOR |
| JP28/SPEAKER | SPEAKER CONNECTOR |
| JP29/KEYLOCK | KEYBOARD LOCK CONNECTOR |

5.2 CONNECTOR DEFINITION

JP1 CONNECTOR FOR EXTERNAL BATTERY

| PIN | ASSIGNMENT |
|-------------------------|-------------------|
| *ON BOARD BATTERY : 2-3 | NORMAL |
| ON BOARD BATTERY : 3-4 | RESET CMOS |
| EXTEND BATTERY : 1 | POSITIVE TERMINAL |
| EXTEND BATTERY : 4 | NEGATIVE TERMINAL |

JP26/RESET HARDWARE RESET SWITCH CONNECTOR

| PIN | ASSIGNMENT |
|-------|------------|
| CLOSE | RESET |
| OPEN | NORMAL |

JP27/TBSW TURBO SWITCH CONNECTOR

| PIN | ASSIGNMENT |
|------------|----------------|
| OFF (OPEN) | NON-TURBO MODE |
| ON (CLOSE) | TURBO MODE |

D1/TBLED TURBO LED CONNECTOR

| PIN | ASSIGNMENT |
|-----|----------------|
| 1 | LED+ (ANODE) |
| 2 | LED- (CATHODE) |

JP28/SPEAKERSPEAKER CONNECTOR

| PIN | ASSIGNMENT |
|-----|--------------|
| 1 | SPEAKER DATA |
| 2 | NOT USED |
| 3 | GROUND |
| 4 | +5V |

JP29/KEYLOCK KEYBOARD LOCK CONNECTOR

| PIN | ASSIGNMENT |
|-----|------------|
| 1 | +5V |
| 2 | NOT USED |
| 3 | GROUND |
| 4 | LOCK |
| 5 | GROUND |

5.3 JUMPER SETTING**LOCAL BUS DEVICE CONTROL JP21, JP22**

| | | | |
|------|-------|---|---------------------|
| JP21 | CLOSE | = | *VESA CLOCK > 33MHz |
| | OPEN | = | VESA CLOCK ≤ 33MHz |
| JP22 | OPEN | = | *OWS |
| | CLOSE | = | 1WS |

* Factory default setting