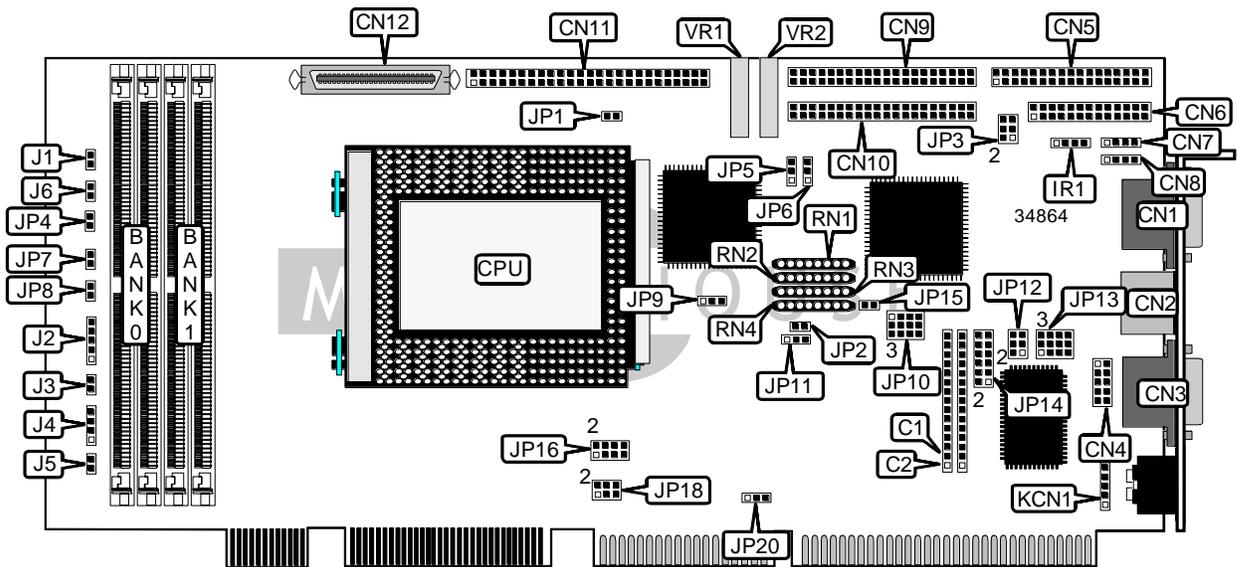


# LANNER ELECTRONICS, INC.

## AP - 601FA

|                               |  |
|-------------------------------|--|
| <b>Device Type</b>            | Mainboard  |
| <b>Processor</b>              | Pentium Pro  |
| <b>Processor Speed</b>        | 150/166/180/200MHz   |
| <b>Chip Set</b>               | Intel  |
| <b>Video Chip Set</b>         | Chips & Technologies   |
| <b>Maximum Onboard Memory</b> | 512MB (EDO supported)  |
| <b>Maximum Video Memory</b>   | 2MB  |
| <b>Cache</b>                  | 256KB (located on Pentium Pro CPU)   |
| <b>BIOS</b>                   | AMI/Award  |
| <b>Dimensions</b>             | Unidentified   |
| <b>I/O Options</b>            | Floppy drive interface, green PC connector, IDE interfaces (2), SCSI interface, Wide Ultra SCSI interface, parallel port, PS/2 mouse port, serial ports (2), VGA port, IR connector, USB connectors (2), flat panel connectors (2) |
| <b>NPU Options</b>            | None   |



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| CONNECTIONS            |          |                              |          |
|------------------------|----------|------------------------------|----------|
| Purpose                | Location | Purpose                      | Location |
| Flat panel connector   | C1       | SCSI interface               | CN11     |
| Flat panel connector   | C2       | Wide Ultra SCSI interface    | CN12     |
| VGA port               | CN1      | IDE interface LED            | J1       |
| PS/2 mouse port        | CN2      | Power LED & keylock          | J2       |
| Serial port 1          | CN3      | Turbo LED                    | J3       |
| Serial port 2          | CN4      | Speaker                      | J4       |
| Floppy drive interface | CN5      | Reset switch                 | J5       |
| Parallel port          | CN6      | SCSI interface LED           | J6       |
| USB connector 1        | CN7      | Green PC connector           | JP4      |
| USB connector 2        | CN8      | IR connector                 | IR1      |
| IDE interface 1        | CN9      | Auxiliary keyboard connector | KCN1     |
| IDE interface 2        | CN10     |                              |          |

| USER CONFIGURABLE SETTINGS          |       |   |
|-------------------------------------|-------|---|
| Function                            | Label | Position  |
| SCSI termination enabled            | JP1   | Open  |
| SCSI termination disabled           | JP1   | Closed  |
| í VEE voltage select +12v - +35v    | JP5   | Pins 2 & 3 closed                                       |
| VEE voltage select -12v - -34v      | JP5   | Pins 1 & 2 closed                                       |
| í Contrast voltage enabled          | JP6   | Pins 1 & 2 closed                                       |
| VEE voltage enabled                 | JP6   | Pins 2 & 3 closed                                       |
| í Factory configured - do not alter | JP12  | Open  |
| í Factory configured - do not alter | JP13  | Pins 2 & 3, 5 & 6, 8 & 9 closed                         |
| í Factory configured - do not alter | JP14  | Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8, 9 & 10, 11 & 12 closed |
| í PS/2 mouse IRQ12 enabled          | JP15  | Closed  |
| PS/2 mouse IRQ12 disabled           | JP15  | Open  |
| í Flash BIOS voltage select 5v      | JP20  | Pins 2 & 3 closed                                       |
| Flash BIOS voltage select 12v       | JP20  | Pins 1 & 2 closed                                       |
| í Factory configured - do not alter | RN1   | Unidentified  |
| í Factory configured - do not alter | RN2   | Unidentified  |
| í Factory configured - do not alter | RN3   | Unidentified  |
| í Factory configured - do not alter | RN4   | Unidentified  |
| í Factory configured - do not alter | VR1   | Unidentified  |
| í Factory configured - do not alter | VR1   | Unidentified  |

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| SIMM CONFIGURATION              |              |              |
|---------------------------------|--------------|--------------|
| Size                            | Bank 0       | Bank 1       |
| 8MB                             | (2) 1M x 36  | None         |
| 16MB                            | (2) 2M x 36  | None         |
| 16MB                            | (2) 1M x 36  | (2) 1M x 36  |
| 24MB                            | (2) 2M x 36  | (2) 1M x 36  |
| 32MB                            | (2) 4M x 36  | None         |
| 32MB                            | (2) 2M x 36  | (2) 2M x 36  |
| 40MB                            | (2) 4M x 36  | (2) 1M x 36  |
| 48MB                            | (2) 4M x 36  | (2) 2M x 36  |
| 64MB                            | (2) 8M x 36  | None         |
| 64MB                            | (2) 4M x 36  | (2) 4M x 36  |
| 72MB                            | (2) 8M x 36  | (2) 1M x 36  |
| 80MB                            | (2) 8M x 36  | (2) 2M x 36  |
| 96MB                            | (2) 8M x 36  | (2) 4M x 36  |
| 128MB                           | (2) 8M x 36  | (2) 8M x 36  |
| 128MB                           | (2) 16M x 36 | None         |
| 136MB                           | (2) 16M x 36 | (2) 1M x 36  |
| 144MB                           | (2) 16M x 36 | (2) 2M x 36  |
| 160MB                           | (2) 16M x 36 | (2) 4M x 36  |
| 192MB                           | (2) 16M x 36 | (2) 8M x 36  |
| 256MB                           | (2) 32M x 36 | None         |
| 256MB                           | (2) 16M x 36 | (2) 16M x 36 |
| 264MB                           | (2) 32M x 36 | (2) 1M x 36  |
| 272MB                           | (2) 32M x 36 | (2) 2M x 36  |
| 288MB                           | (2) 32M x 36 | (2) 4M x 36  |
| 320MB                           | (2) 32M x 36 | (2) 8M x 36  |
| 384MB                           | (2) 32M x 36 | (2) 16M x 36 |
| 512MB                           | (2) 32M x 36 | (2) 32M x 36 |
| Note: Board accepts EDO memory. |              |              |

| CACHE CONFIGURATION                                  |
|--|
| Note: 256KB cache is located on the Pentium Pro CPU. |

| VIDEO MEMORY CONFIGURATION  |
|---|
| Note: Board accepts 1MB/2MB video memory. The location is unidentified. |

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| CPU SPEED SELECTION |             |            |        |        |                     |       |
|---------------------|-------------|------------|--------|--------|---------------------|-------|
| CPU speed           | Clock speed | Multiplier | JP7    | JP8    | JP16                | JP18  |
| 150MHz              | 60MHz       | 2.5x       | Open   | Closed | 1 & 2, 3 & 4, 5 & 6 | 1 & 2 |
| 166MHz              | 66MHz       | 2.5x       | Closed | Open   | 1 & 2, 3 & 4, 5 & 6 | Open  |
| 180MHz              | 60MHz       | 3x         | Open   | Closed | 1 & 2, 3 & 4, 7 & 8 | 1 & 2 |
| 200MHz              | 66MHz       | 3x         | Closed | Open   | 1 & 2, 3 & 4, 7 & 8 | Open  |

Note: Pins designated should be in the closed position.

| FLAT PANEL SELECTION   |                                 |
|------------------------|---------------------------------|
| Setting                | JP3                             |
| 1024 x 768 DSTN        | Pins 1 & 2, 3 & 4, 5 & 6 closed |
| 1280 x 1024 TFT        | Pins 3 & 4, 5 & 6 closed        |
| 640 x 480 DSTN         | Pins 1 & 2, 5 & 6 closed        |
| 800 x 600 DSTN         | Pins 5 & 6 closed               |
| 640 x 480 Sharp TFT    | Pins 1 & 2, 3 & 4 closed        |
| í 640 x 480 18 bit TFT | Pins 3 & 4 closed               |
| 1024 x 768 TFT         | Pins 1 & 2 closed               |
| 800 x 600 TFT          | Open                            |

| WATCHDOG TIMER ACTIVE SELECTION |                     |
|---------------------------------|---------------------|
| Time out                        | JP10                |
| .5 sec                          | Pins 2 & 3 closed   |
| 1 sec                           | Pins 5 & 6 closed   |
| 2 sec                           | Pins 8 & 9 closed   |
| í 4 sec                         | Pins 11 & 12 closed |
| 8 sec                           | Pins 10 & 11 closed |
| 16 sec                          | Pins 7 & 8 closed   |
| 32 sec                          | Pins 4 & 5 closed   |
| 64 sec                          | Pins 1 & 2 closed   |

| WATCHDOG TIMER ACTIVE SELECTION |                   |
|---------------------------------|-------------------|
| Time out                        | JP11              |
| í Reset system                  | Pins 1 & 2 closed |
| NMI system                      | Pins 2 & 3 closed |
| Disabled                        | Open              |

| SCSI SELECTION |        |                   |
|----------------|--------|-------------------|
| Setting        | JP2    | JP9               |
| í 8 bit        | Open   | Pins 1 & 2 closed |
| Wide           | Closed | Pins 1 & 2 closed |
| Ultra Wide     | Closed | Pins 2 & 3 closed |