

CPU and Memory

CPU

Cyrix SL-enhanced Cx486DX2-50 microprocessor; includes built-in math coprocessor, 8KB of internal cache, and power management features; cache can be enabled or disabled using the SCU

monitor

Parallel Centronics® compatible; 25-pin, D-sub,

> female connector; supports normal (S-bit AT compatible, unidirectional) and bidirectional (16-bit PS/2 compatible)

modes

10/25/94 AN650-1 Serial RS-232C, programmable, asynchronous,

9-pin, D-sub male connector

External kevboard / mouse

Auto-sensing, 6-pin, mini-DIN connector for a PS/2-type external keyboard, keypad, mouse, or other pointing device

Keyboard

85 / 86 keys; 101/102-key keyboard compatible; embedded keypad; support

for hot key commands

Trackball Built-in 16 mm, PS/2 compatible trackball

with two buttons

Mass Storage

Hard disk drive

One internal 2.5 inch long by .5 to .75 inch (12.5 mm to 19 mm) high IDE hard disk drive; SCU automatically detects standard IDE drive types

The following table shows the characteristics for the Toshiba MK1724FCV drive.

| Capacity | 262MB | Sectors | 38 |
|-----------|-------|--------------|-----|
| Heads | 16 | WP Com | 0 |
| Cylinders | 842 | Landing Zone | 842 |

Diskette drive

One internal, 3.5-inch, low power consumption, diskette drive; 720KB or 1.44MB format

System Configuration Utility

Stored in ROM; accessible by pressing Ctrl Alt S at system startup or at MS-DOS prompt; includes power management features

Software

Latest versions of MS-DOS and Microsoft Windows; Borland SideKick for Windows; ClarisWorks for Windows; trial versions of CompuServe WinCIM, America Online, and OAG FlightDisk; PCMCIA services, drivers, and utilities: on-line Windows and other manuals: video drivers and utilities for Microsoft Windows; power management utilities; all installed on the hard disk drive

LCD Screen

Monochrome: 9.5-inch diagonal, 64 gray shades, 640 x 480, backlit

Dual-scan STN color: 10.3-inch diagonal, 640 x 480 x 256 colors, backlit

LCD Indicator The ActionNote 650 has the indicators **Panel** shown in the table below

| Icon | Name | Meaning |
|------------------|----------------------------|--|
| △ I A | Caps Lock | Caps Lock is on. |
| | Num Lock | Num Lock is on. |
| | Scroll Lock | Scroll Lock is on. |
| | Keypad Lock | The embedded keypad is locked. |
| 8 | Hard Disk Activity | The computer is accessing the hard disk drive. |
| <u> </u> | Diskette Drive Activity | The computer is accessing the diskette drive. |
| | PCMCIA Card Activity | The computer is accessing a PCMCIA card. |
| Q | Suspend | The system is in suspend mode |
|) <u>IIII</u> (• | Battery Status | Shows battery charge status by displaying from zero to four vertical bars inside the battery symbol. |
| * | Battery Charging | The AC adapter is charging the battery. |
| — | AC Power | The computer is running on AC power rather than the battery. |

Power Sources

AC adapter

| Size | 5.3" (L) × 2.8" (W) × 1.5" (H) |
|-----------------|---|
| | (136 mm [L] \times 72 mm W] \times 37 mm [H]) |
| Weight | 13.5 ounces (380 grams) |
| AC cable length | 6 ft (2 meters) |
| DC cable length | 39 in (1 meter) |
| Input voltage | 100 VAC to 250 VAC, autosensing |
| Input frequency | 40 to 63 Hz |
| Output voltage | 17 VDC with 2 Amp maximum and 20 VDC with |
| | 1.05 Amp maximum |

Rechargeable, 12 Volt, 2.6Ah NiMH **Battery**

battery; current regulation and automatic

charge stop by thermistor

Caution

Use only the adapters and replacement batteries designed for use with the ActionNote 650 series (AC adapter model number TSA3 and battery model number 10HR-4/3AU).

AN650-2 10/25/94 Power Management You can access the power management features through Setup or by pressing Ctrl Alt P in text mode or Fn Esc in graphics

Power Management Options in Setup

| Menu | Option | Value | Description |
|----------|--|--------------------------------|---|
| Controls | Power savings | Always*, Battery, Disable | Always = power management active Battery = active only from battery. |
| | Battery low | Suspend*, Warn only | Suspend puts computer into suspend mode when battey charge is low. |
| | Alarm resume | Disable*, Enable | Enable lets you set a time after which the computer will resume full operation after going into Suspend mode. |
| System | CPUstandby | 4*, 8, 6, Disable | Sets timeout in seconds before computer slows CPU. |
| | Global standby | 1, 2, 4, 8, 12, 16, Disable | Sets timeout in minutes before computer slows CPU and turns off all devices. |
| | Auto suspend 1, 5, 1 2 60, Disab | | Sets timeout in minutes before computer enters Suspend mode. |
| | Disk suspend | Disable*, Enable | Enables Suspend of the hard drive |
| | Video monitoring | Disable*, Enable | "Enable" causes any screen activity (e.g., a flashing cursor) to prevent the system entering Standby or Suspend mode. |
| Device | evice Video 1, 2, 4, 8, 12, 16, Always on | | Sets timeout in minutes for screen inactivity before the LCD backlight is turned off. |
| | Hard disk | 1, 8, 12, 16, Always on | Sets timeout in minutes for HDD inactivity before drive is turned off. |

Built in Power Management Options

| Mode | Entry | Description | Exit |
|--------------------|---|---|--|
| CPU standby | When system is inactive | Reduces CPU clock speed | When CPU is required, full performance returns instantly. |
| Global Standby | When system is inactive for timeout period set for Global Standby | Reduces CPU speed further; turns off LCD backlight; puts HDD and other components in low-power state. | If there is activity keyboard or pointing device, resumes full performance in a few seconds. |
| Suspend to memory | When system is inactive for timeout period set for Suspend, or Suspend/ Resume is pressed, or battery is low. | CPU clock stopped; LCD and HDD turned off; other components suspended. | If the Suspend/Resume button is pressed the system resumes. |
| Suspend to disk | When system is inactive for timeout period set for Suspend, or Suspend/ Resume is pressed, or battery is low. | Saves contents of system and video memory to a file on disk; then turns system off completely | Presspower on to start system Full performance 30 seconds. |

Environmental Requirements

| Condition | Operating | Non-operating |
|------------------|-------------------|-------------------|
| Temperature | 42° to 95 F | -4 to 140 F |
| | (5° to 35° C) | (–20° to 60° C) |
| Humidity | 30% to 90% | 5% to 95% |
| (non-condensing) | | |
| Altitude | -200 to 12,000 ft | -200 to 30,000 ft |
| | (-67 to 4,000 m) | (-67 to 10,000 m) |

Caution

When traveling by airplane, take the computer into the passenger compartment as carry-on luggage to prevent it from being stored in an unpressurized storage compartment.

Physical Dimensions

| Model | Depth | | Width | | Height | | Weight | |
|------------|--------|-----|--------|-----|--------|------|--------|-----|
| | inches | mm | inches | mm | inches | s mm | lb | kg |
| Monochrome | 8.6 | 219 | 11 | 279 | 1.75 | 44.5 | 5.8 | 2.7 |
| STN color | 8.6 | 219 | 11 | 279 | 2.0 | 51 | 6.8 | 3.1 |

Optional Equipment

- ☐ 4MB, 8MB, and 16MB memory expansion modules
- ☐ External keyboard
- ☐ External numeric keypad
- ☐ Additional NiMH batteries
- External battery charger
- ☐ Auto adapter
- Extra AC adapter
- ☐ PCMCIA Type II cards including Flash RAM, SRAM, modem, fax/modem, and LAN cards, etc.

Connector Pin Assignments

LCD Connector 2 (JP201)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--------|
| 1 | LCDVDD | 6 | P11 | 11 | DE |
| 2 | GND | 7 | P12 | 12 | GND |
| 3 | P8 | 8 | P13 | 13 | GND |
| 4 | P9 | 9 | P14 | 14 | GND |
| 5 | P10 | 10 | P15 | 15 | GND |

LCD Connector 1 (JP202)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|---------|---------|--------|---------|--------|
| 1 | FLM | 6 | GND | 11 | P4 |
| 2 | LP | 7 | P0 | 12 | P5 |
| 3 | SHFCLK | 8 | P1 | 13 | P6 |
| 4 | DISPOFF | 9 | P2 | 14 | P7 |
| 5 | LCDVDD | 10 | P3 | | • |

Line In Connector (JP203)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|---------|---------|--------|
| 1 | NC | 3 | LINE-IN | 5 | FOUT |
| 2 | GND | 4 | GND | 6 | NC |

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External Keyboard/Mouse Connector (JP204)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|----------|---------|--------|---------|---------|
| 1 | AUX-DATA | 3 | GND | 5 | AUX-CLK |
| 2 | NC | 4 | +5 V | 6 | NC |

Trackball/ Speaker Connector (JP205)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|---------|---------|-----------------|
| 1 | +5 V | 4 | GND | 7 | SPEAKER- OUT |
| 2 | RXDA | 5 | VBBAT | 8 | MIC-GND |
| 3 | RTSA | 6 | MIC-GND | 9 | MIC-IN |

VGA Connector for an External Monitor (JP206)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--------|
| 1 | CRTGND | 6 | P11 | 11 | DE |
| 2 | GND | 7 | P12 | 12 | GND |
| 3 | P8 | 8 | P13 | 13 | GND |
| 4 | P9 | 9 | P14 | 14 | GND |
| 5 | P10 | 10 | P15 | 15 | GND |

Status LCD Display Board Connector (JP207)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|---------|------------|--------|
| 1 | GND | 3 | SW-CLK | 5 | +5 VDC |
| 2 | NC | 4 | SW-DATA | | |

Parallel Port Connector (JP208)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|---------------|---------|---------------|---------|-------------|
| 1 | LPT STROBE | 10 | LPTACK | 19 | GND |
| 2 | LPTD0 | 11 | LPTBUSY | 20 | GND |
| 3 | LPTD1 | 12 | LPTPE | 21 | GND |
| 4 | LPTD2 | 13 | LPTSLCT | 22 | GND |
| 5 | LPTD3 | 14 | LPTAFD | 23 | GND |
| 6 | LPTD4 | 15 | LPTERR | 24 | FDD/ LPT |
| 7 | LPTD5 | 16 | LPTINITI | 25 | GND |
| 8 | LPTD6 | 17 | LPT SLCTIN | | |
| 9 | LPTD7 | 18 | GND | | |

Internal Keyboard Connector (JP209)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--------|
| 1 | KSO0 | 9 | KSO8 | 17 | KSI0 |
| 2 | KSO1 | 10 | KSO9 | 18 | KSI1 |
| 3 | KSO2 | 11 | KSO10 | 19 | KSI2 |
| 4 | кѕоз | 12 | KSO11 | 20 | KSI3 |
| 5 | KSO4 | 13 | KSO12 | 21 | KSI4 |
| 6 | KSO5 | 14 | KSO13 | 22 | KSI5 |
| 7 | KSO6 | 15 | KSO14 | 23 | KSI6 |
| 8 | KSO7 | 16 | KSO15 | 24 | KSI7 |

Serial Port Connector (JP211)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--------|
| 1 | DCD | 4 | DTR | 7 | RTS |
| 2 | RXD | 5 | GND | 8 | CTS |
| 3 | TXD | 6 | DSR | 9 | RI |

On/ Off Button Connector (JP213)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|---------------|---------|--------|
| 1 | GND | 2 | On/Off BTN | 3 | NC |

Battery Connector (JP215)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--------|
| 1 | BATT+ | 3 | GND | 5 | NC |
| 2 | BATT+ | 4 | GND | 6 | TEMP_S |

Phone Jack (JP218)

| Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|-----------------|
| 1 | GND | 3 | SPEAKER- OUT |
| 2 | OUT | 4 | OUT |

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PCMCIA Socket B Connector (JP219)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|---------------|---------|---------------|---------|---------------|
| 1 | GND | 24 | B-A5 | 47 | B-A18 |
| 2 | B-D3 | 25 | B-A4 | 48 | B-A19 |
| 3 | B-D4 | 26 | В-АЗ | 49 | B-A20 |
| 4 | B-D5 | 27 | B-A2 | 50 | B-A21 |
| 5 | B-D6 | 28 | B-A1 | 51 | BSVCC |
| 6 | B-D7 | 29 | B-A0 | 52 | B-VPP |
| 7 | B-CE1 | 30 | B-D0 | 53 | B-A22 |
| 8 | B-A10 | 31 | B-D1 | 54 | B-A23 |
| 9 | B-0E | 32 | B-D2 | 55 | B-A24 |
| 10 | B-A11 | 33 | B-WP- IO16 | 56 | B-A25 |
| 11 | B-A9 | 34 | GND | 57 | B-5VDET |
| 12 | B-A8 | 35 | GND | 58 | B-RST |
| 13 | B-A13 | 36 | B-CD1 | 59 | B-WAIT |
| 14 | B-A14 | 37 | B-D11 | 60 | B-INPK |
| 15 | B-WE | 38 | B-D12 | 61 | B-REG |
| 16 | B-RDY/ IRQ | 39 | B-D13 | 62 | B-BV2/ SPK |
| 17 | B-VCC | 40 | B-D14 | 63 | B-BV1/ STC |
| 18 | B-VPP | 41 | B-D15 | 64 | B-D8 |
| 19 | B-A16 | 42 | B-CE2 | 65 | B-D9 |
| 20 | B-A15 | 43 | NC | 66 | B-D10 |
| 21 | B-A12 | 44 | B-IORD | 67 | B-CD2 |
| 22 | B-A7 | 45 | B-IOWR | 68 | GND |
| 23 | B-A6 | 46 | B-A17 | | |

Hard Disk Drive Connector (JP220)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--------|
| 1 | RSTIDE | 16 | HD14 | 31 | IRQ14 |
| 2 | GND | 17 | HD0 | 32 | IOSC16 |
| 3 | IDED7 | 18 | HD15 | 33 | SA1 |
| 4 | HD8 | 19 | GND | 34 | NC |
| 5 | HD6 | 20 | NC | 35 | SA0 |
| 6 | HD9 | 21 | NC | 36 | SA2 |
| 7 | HD5 | 22 | GND | 37 | HDCS0 |
| 8 | HD10 | 23 | IOW | 38 | HDCS1 |
| 9 | HD4 | 24 | GND | 39 | HDDLED |
| 10 | HD11 | 25 | IOR | 40 | GND |
| 11 | HD3 | 26 | GND | 41 | +5 V |
| 12 | HD12 | 27 | NC | 42 | +5 V |
| 13 | HD2 | 28 | NC | 43 | GND |
| 14 | HD13 | 29 | NC | 44 | +5 V |
| 15 | HD1 | 30 | GND | | |

Memory Connector 1 (JP221)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|----------|---------|----------|---------|--------|
| 1 | +5 V SUS | 15 | D12 | 29 | D23 |
| 2 | D0 | 16 | D13 | 30 | GND |
| 3 | D1 | 17 | D14 | 31 | D24 |
| 4 | D2 | 18 | D15 | 32 | D25 |
| 5 | D3 | 19 | +5 V SUS | 33 | D26 |
| 6 | D4 | 20 | MA10 | 34 | D27 |
| 7 | D5 | 21 | GND | 35 | D28 |
| 8 | D6 | 22 | D16 | 36 | D29 |
| 9 | D7 | 23 | D17 | 37 | D30 |
| 10 | +5 V SUS | 24 | D18 | 38 | D31 |
| 11 | D8 | 25 | D19 | 39 | GND |
| 12 | D9 | 26 | D20 | 40 | RAS#1 |
| 13 | D10 | 27 | D21 | 41 | RAS#2 |
| 14 | D11 | 28 | D22 | | |

Memory Connector 2

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|----------|---------|-------------|
| 1 | GND | 10 | CAS#2 | 19 | MA5 |
| 2 | CAS#0 | 11 | CAS#3 | 20 | MA6 |
| 3 | CAS#1 | 12 | GND | 21 | MA7 |
| 4 | CAS#2 | 13 | +5 V SUS | 22 | MA8 |
| 5 | CAS#3 | 14 | MA0 | 23 | MA9 |
| 6 | DRAMWE | 15 | MA1 | 24 | DRAMWE |
| 7 | DRAMWE | 16 | MA2 | 25 | DRAMWE |
| 8 | CAS#0 | 17 | МАЗ | | |
| 9 | CAS#1 | 18 | MA4 | | |

FDD Connector (JP223)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--------|
| 1 | +5 V | 8 | FDDIR | 15 | TRACK0 |
| 2 | INDEX | 9 | STEP | 16 | GND |
| 3 | +5 V | 10 | GND | 17 | WP |
| 4 | DRV0 | 11 | WDATA | 18 | GND |
| 5 | DSKCHG | 12 | GND | 19 | RDATA |
| 6 | DENSEL | 13 | WGATE | 20 | HDSEL |
| 7 | MTRO | 14 | GND | | |

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CPU Selection Connector (JP224)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|----------|---------|---------------|---------|----------|
| 1 | +5 V | 15 | IRQ15 | 29 | EGSMIADS |
| 2 | +5 V | 16 | EGSMIRDY | 30 | CPUSMI |
| 3 | +5 V | 17 | +5 V | 31 | SRESET |
| 4 | +5 V | 18 | NC | 32 | EGNMI |
| 5 | GND | 19 | STPCLK /NC | 33 | GND |
| 6 | GND | 20 | NC | 34 | EGIGNNE |
| 7 | JSCLK20 | 21 | CPUVDD | 35 | SMIACT |
| 8 | CPUPOK | 22 | CPUVDD | 36 | M6SMI |
| 9 | FLUSH | 23 | CPUVDD | 37 | EGFERR |
| 10 | +5 V SUS | 24 | CPUVDD | 38 | WM-RST |
| 11 | IIBEN | 25 | GND | 39 | FERR |
| 12 | NC | 26 | GND | 40 | NMI/NC |
| 13 | INVL/NC | 27 | CPUFLUSH | 41 | IG/NMI |
| 14 | JMA10 | 28 | PMI | | · |

PCMCIA Socket A Connector (JP225)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|---------------|---------|----------|---------|------------|
| 1 | GND | 24 | A-A5 | 47 | A-A18 |
| 2 | A-D3 | 25 | A-A4 | 48 | A-A19 |
| 3 | A-D4 | 26 | A-A3 | 49 | A-A20 |
| 4 | A-D5 | 27 | A-A2 | 50 | A-A21 |
| 5 | A-D6 | 28 | A-A1 | 51 | ASVCC |
| 6 | A-D7 | 29 | A-A0 | 52 | A-VPP |
| 7 | A-CE1 | 30 | A-D0 | 53 | A-A22 |
| 8 | A-A10 | 31 | A-D1 | 54 | A-A23 |
| 9 | A-OE | 32 | A-D2 | 55 | A-A24 |
| 10 | A-A11 | 33 | A-WPIO16 | 56 | A-A25 |
| 11 | A-A9 | 34 | GND | 57 | A-5VDET |
| 12 | A-A8 | 35 | GND | 58 | A-RST |
| 13 | A-A13 | 36 | A-CD1 | 59 | A-WAIT |
| 14 | A-A14 | 37 | A-D11 | 60 | A-INPR |
| 15 | A-WE | 38 | A-D12 | 61 | A-REG |
| 16 | A-RDY/ IRQ | 39 | A-D13 | 62 | A-BV2/SPK |
| 17 | ASVCC | 40 | A-D14 | 63 | A-BV1/ STC |
| 18 | A-VPP | 41 | A-D15 | 64 | A-D8 |
| 19 | A-A16 | 42 | A-CE2 | 65 | A-D9 |
| 20 | A-A15 | 43 | NC | 66 | A-D10 |
| 21 | A-A12 | 44 | A-IORD | 67 | A-CD2 |
| 22 | A-A7 | 45 | A-IOWR | 68 | GND |
| 23 | A-A6 | 46 | A-A17 | | |

AC Adapter Input Connector (P1)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--|
| 1 | +20 V | 2 | GND | 3 | CURR: 2.1A/1.05A current source |

Inverter Connector (P2)

| Pin No. | Signal | Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|--------|---------|--------|
| 1 | GND | 5 | LCDVDD | 9 | FPVEE |
| 2 | GND | 6 | B+ | 10 | LCK |
| 3 | GND | 7 | B+ | 11 | LDA |
| 4 | BKLOFF | 8 | B+ | 12 | ADRST |

System I/O Addresses, DMA Assignments, and Hardware Interrupts

I/O Addresses

| Hex Address | Device | Hex Address | Device | Hex Address | Device |
|----------------|------------------------------|----------------|--|----------------|---------------------------------|
| 000-020 | DMA controller 1 | 0F0-0F1 | Clear math co- processor busy | 27F-2F8 | Reserved |
| 020-040 | Interrupt controller | 0F1-0F8 | Reset math co- processor | 2F8-2FF | Serial port 2 |
| 040-060 | Timer/ counter | 0F8 | Math co- processor | 2FF-3B0 | Reserved |
| 060-070 | Keyboard controller | 100-1F0 | Reserved | 3B0-3F0 | Video system |
| 070-080 | RTC NMI | 1F0-200 | Hard disk drive | 3BC-3BE: 3 | Parallel port 1 |
| 080-0A0 | DMA bage register | 200-208 | Game port | 3F0-3F8 | Diskette drive controller |
| 0A0-0C0 | Interrupt controller 2 | 208-278 | Reserved | 3F8-3FF | Serial port 1 |
| 0C0-0F0 | DMA con- troller 2 | 240-24F | PCMCIA controller | | |

DMA Assignments

| Level | Device | Level | Device | Level | Device |
|-------|------------------------|-------|-----------------------|-------|-----------|
| DMA0 | Available | DMA3 | ECP | DMA6 | Available |
| DMA1 | Available | DMA4 | Cascade for Ctrl 1 | DMA7 | Available |
| DMA2 | Diskette Controller | DMA5 | Available | | |

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Hardware Interrupts

| Interrupt | Function | Interrupt | Function | Interrupt | Function |
|-----------|----------------|-----------|------------------------|-----------|--------------------------|
| IRQ0 | Timer | IRQ6 | Diskette controller | IRQ12 | Available |
| IRQ1 | Keyboard | IRQ7 | LPT1 | IRQ13 | Reserved for coprocessor |
| IRQ2 | Cascade | IRQ8 | Clock/ calendar | IRQ14 | HDD controller |
| IRQ3 | COM2 (2F8H) | IRQ9 | Available | IRQ15 | Available |
| IRQ4 | COM1 (3F8H) | IRQ10 | Available | | |
| IRQ5 | Available | IRQ11 | PCMCIA controller | | |

Related Documents

Engineering Change Notices

None.

Technical Information Bulletins

None.

Product Support Bulletins

None.

Related Documentation

400387400 EPSON ActionNote 600 Series User's Guide

400390500 For Software Support

PL-AN650 EPSON ActionNote 650 Parts Price List

TM-AN650T EPSONActionNote 600 Series Service Manual

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