# FIRST INTERNATIONAL COMPUTER, INC.
# 486-PIO-2 (REV. A2)

| | |
|---|---|
| **Processor** | 80486SX/CX486DX/SL80486DX/UMCU5SD/UMCU5S/UMCU5SLV/ CX486DX2/AM486DX2/(SL)AM486DX2/SL80486DX2/AM486DX4/ (SL)AM486DX4/80486FX4/P24D/P24S/P24T/CXM1 |
| **Processor Speed** | 25/33/40/50(internal)/50/66(internal)/75(internal)/80(internal)/ 100(internal)MHz |
| **Chip Set** | VIA |
| **Video Chip Set** | None |
| **Maximum Onboard Memory** | 128MB |
| **Maximum Video Memory** | None |
| **Cache** | 128/256/512KB |
| **BIOS** | Award |
| **Dimensions** | 330mm x 218mm |
| **I/O Options** | 32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, serial ports (2) |
| **NPU Options** | None |
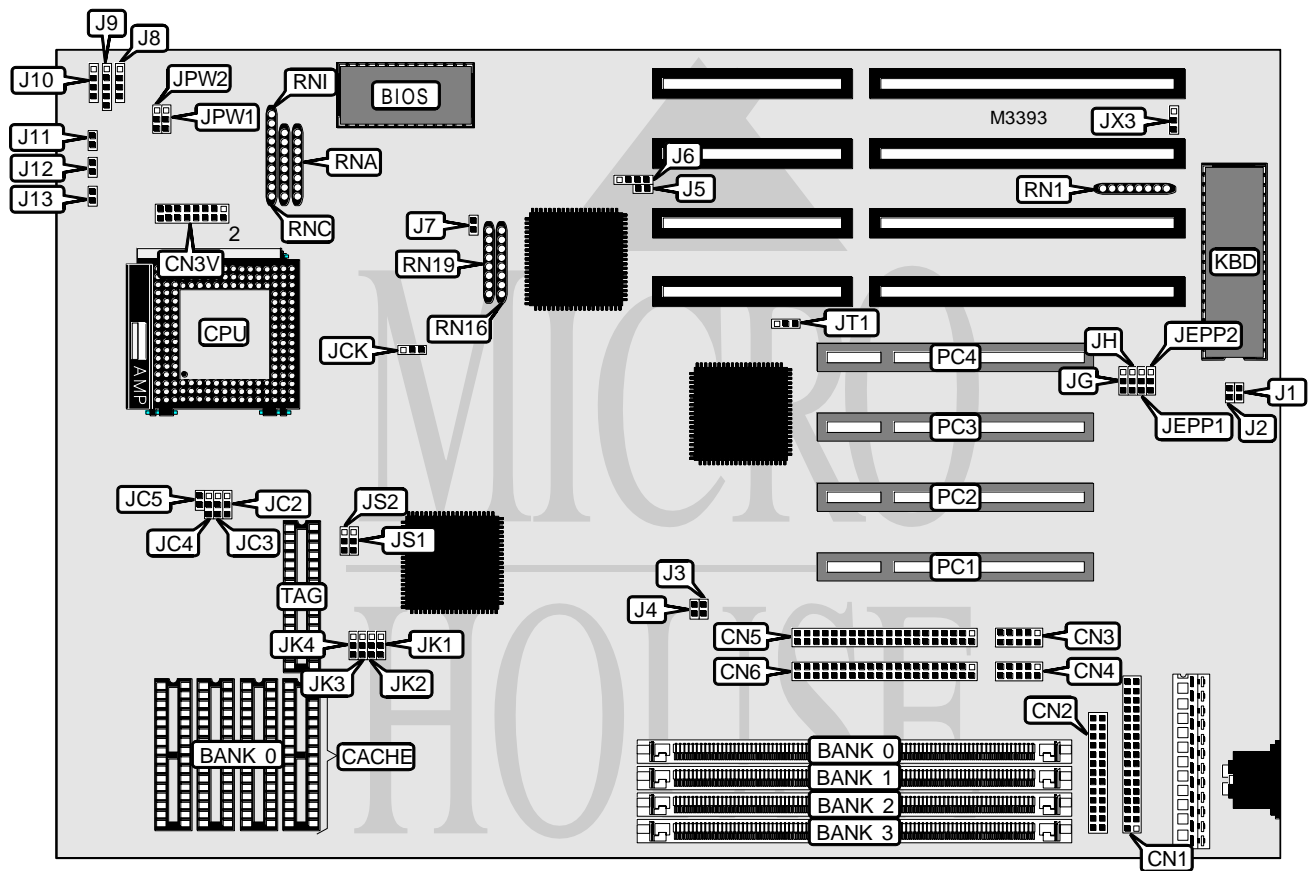


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| CONNECTIONS | | | |
|---|---|---|---|
| **Purpose** | **Location** | **Purpose** | **Location** |
| Floppy drive interface | CN1 | External battery | J6 |
| Parallel port | CN2 | Green PC connector | J7 |
| Serial port 2 | CN3 | Chassis fan power | J8 |
| Serial port 1 | CN4 | Power LED & keylock | J9 |
| IDE interface 2 | CN5 | Speaker | J10 |
| IDE interface 1 | CN6 | Reset switch | J11 |
| IDE interface LED | J3 | Turbo switch | J12 |
| Green PC LED | J4 | Turbo LED | J13 |
| Outlet connector | J5 | 32-bit PCI slots | PC1 - PC4 |

| USER CONFIGURABLE SETTINGS | | |
|---|---|---|
| **Function** | **Label** | **Position** |
| í  Monitor type select monochrome/EGA/VGA | J1 | Open |
| Monitor type select CGA | J1 | Closed |
| í  Password normal operation | J2 | Open |
| Password clear | J2 | Closed |

| DRAM CONFIGURATION | | | | |
|---|---|---|---|---|
| **Size** | **Bank 0** | **Bank 1** | **Bank 2** | **Bank 3** |
| 1MB | (1) 256K x 36 | None | None | None |
| 1MB | None | (1) 256K x 36 | None | None |
| 1MB | None | None | (1) 256K x 36 | None |
| 2MB | (1) 256K x 36 | (1) 256K x 36 | None | None |
| 2MB | (1) 256K x 36 | None | (1) 256K x 36 | None |
| 2MB | None | None | (1) 256K x 36 | (1) 256K x 36 |
| 2MB | None | (1) 256K x 36 | (1) 256K x 36 | None |
| 3MB | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 | None |
| 3MB | None | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 3MB | (1) 256K x 36 | None | (1) 256K x 36 | (1) 256K x 36 |
| 4MB | (1) 1M x 36 | None | None | None |
| 4MB | None | (1) 1M x 36 | None | None |
| 4MB | None | None | (1) 1M x 36 | None |
| 4MB | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 5MB | (1) 256K x 36 | (1) 1M x 36 | None | None |
| 5MB | (1) 256K x 36 | None | (1) 1M x 36 | None |
| 5MB | (1) 1M x 36 | (1) 256K x 36 | None | None |
| 5MB | (1) 1M x 36 | None | (1) 256K x 36 | None |
| 5MB | None | (1) 256K x 36 | (1) 1M x 36 | None |
| 5MB | None | (1) 1M x 36 | (1) 256K x 36 | None |
| 6MB | (1) 1M x 36 | (1) 256K x 36 | (1) 256K x 36 | None |
| 6MB | (1) 256K x 36 | (1) 1M x 36 | (1) 256K x 36 | None |

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| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 |
|------|--------|--------|--------|--------|
| DRAM CONFIGURATION (CON'T) | | | | |
| 6MB | None | (1) 1M x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 6MB | (1) 1M x 36 | None | (1) 256K x 36 | (1) 256K x 36 |
| 7MB | (1) 256K x 36 | (1) 1M x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 7MB | (1) 1M x 36 | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 8MB | (1) 1M x 36 | (1) 1M x 36 | None | None |
| 8MB | (1) 1M x 36 | None | (1) 1M x 36 | None |
| 8MB | None | None | (1) 1M x 36 | (1) 1M x 36 |
| 8MB | None | (1) 1M x 36 | (1) 1M x 36 | None |
| 9MB | (1) 256K x 36 | (1) 1M x 36 | (1) 1M x 36 | None |
| 9MB | (1) 1M x 36 | (1) 256K x 36 | (1) 1M x 36 | None |
| 9MB | (1) 1M x 36 | (1) 1M x 36 | (1) 256K x 36 | None |
| 9MB | None | (1) 256K x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 9MB | (1) 256K x 36 | None | (1) 1M x 36 | (1) 1M x 36 |
| 10MB | (1) 256K x 36 | (1) 256K x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 10MB | (1) 1M x 36 | (1) 1M x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 12MB | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 | None |
| 12MB | None | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 12MB | (1) 1M x 36 | None | (1) 1M x 36 | (1) 1M x 36 |
| 13MB | (1) 256K x 36 | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 13MB | (1) 1M x 36 | (1) 256K x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 16MB | None | (1) 4M x 36 | None | None |
| 16MB | None | None | (1) 4M x 36 | None |
| 16MB | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 17MB | (1) 256K x 36 | (1) 4M x 36 | None | None |
| 17MB | (1) 256K x 36 | None | (1) 4M x 36 | None |
| 17MB | None | (1) 256K x 36 | (1) 4M x 36 | None |
| 17MB | None | (1) 4M x 36 | (1) 256K x 36 | None |
| 18MB | (1) 256K x 36 | (1) 256K x 36 | (1) 4M x 36 | None |
| 18MB | (1) 256K x 36 | (1) 4M x 36 | (1) 256K x 36 | None |
| 18MB | None | (1) 4M x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 19MB | (1) 256K x 36 | (1) 4M x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 20MB | (1) 1M x 36 | (1) 4M x 36 | None | None |
| 20MB | (1) 1M x 36 | None | (1) 4M x 36 | None |
| 20MB | None | (1) 4M x 36 | (1) 1M x 36 | None |
| 20MB | None | (1) 1M x 36 | (1) 4M x 36 | None |
| 21MB | (1) 256K x 36 | (1) 1M x 36 | (1) 4M x 36 | None |
| 21MB | (1) 256K x 36 | (1) 4M x 36 | (1) 1M x 36 | None |
| 21MB | (1) 1M x 36 | (1) 256K x 36 | (1) 4M x 36 | None |
| 21MB | (1) 1M x 36 | (1) 4M x 36 | (1) 256K x 36 | None |
| 22MB | (1) 1M x 36 | (1) 4M x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 24MB | (1) 1M x 36 | (1) 1M x 36 | (1) 4M x 36 | None |
| 24MB | (1) 1M x 36 | (1) 4M x 36 | (1) 1M x 36 | None |

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| DRAM CONFIGURATION (CON'T) | | | |
|---|---|---|---|
| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 |
| 24MB | None | (1) 4M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 25MB | (1) 256K x 36 | (1) 4M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 28MB | (1) 1M x 36 | (1) 4M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 33MB | (1) 256K x 36 | (1) 4M x 36 | (1) 4M x 36 | None |
| 33MB | (1) 256K x 36 | None | (1) 4M x 36 | (1) 4M x 36 |
| 34MB | (1) 256K x 36 | (1) 256K x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 36MB | (1) 1M x 36 | (1) 4M x 36 | (1) 4M x 36 | None |
| 36MB | None | (1) 1M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 36MB | (1) 1M x 36 | None | (1) 4M x 36 | (1) 4M x 36 |
| 37MB | (1) 256K x 36 | (1) 1M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 37MB | (1) 1M x 36 | (1) 256K x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 40MB | (1) 1M x 36 | (1) 1M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 48MB | None | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 49MB | (1) 256K x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 52MB | (1) 1M x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 64MB | None | (1) 8M x 36 | (1) 8M x 36 | None |
| 65MB | (1) 256K x 36 | (1) 16M x 36 | None | None |
| 65MB | (1) 256K x 36 | (1) 8M x 36 | (1) 8M x 36 | None |
| 66MB | (1) 256K x 36 | (1) 256K x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 66MB | (1) 256K x 36 | (1) 8M x 36 | (1) 256K x 36 | (1) 8M x 36 |
| 66MB | (1) 8M x 36 | (1) 8M x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 68MB | (1) 1M x 36 | (1) 8M x 36 | (1) 8M x 36 | None |
| 68MB | None | (1) 1M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 68MB | (1) 8M x 36 | (1) 8M x 36 | (1) 1M x 36 | None |
| 69MB | (1) 256K x 36 | (1) 1M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 69MB | (1) 256K x 36 | (1) 8M x 36 | (1) 1M x 36 | (1) 8M x 36 |
| 69MB | (1) 1M x 36 | (1) 256K x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 69MB | (1) 1M x 36 | (1) 8M x 36 | (1) 256K x 36 | (1) 8M x 36 |
| 72MB | (1) 1M x 36 | (1) 1M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 72MB | (1) 1M x 36 | (1) 8M x 36 | (1) 1M x 36 | (1) 8M x 36 |
| 72MB | (1) 8M x 36 | (1) 8M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 80MB | (1) 8M x 36 | (1) 4M x 36 | (1) 8M x 36 | None |
| 80MB | (1) 8M x 36 | (1) 8M x 36 | (1) 4M x 36 | None |
| 81MB | (1) 256K x 36 | (1) 4M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 81MB | (1) 256K x 36 | (1) 8M x 36 | (1) 4M x 36 | (1) 8M x 36 |
| 84MB | (1) 1M x 36 | (1) 4M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 84MB | (1) 1M x 36 | (1) 8M x 36 | (1) 4M x 36 | (1) 8M x 36 |
| 96MB | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 | None |
| 97MB | (1) 256K x 36 | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 128MB | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 |

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| CACHE CONFIGURATION | | |
|---|---|---|
| **Size** | **Bank 0** | **TAG** |
| 128KB | (4) 32K x 8 | (1) 8K x 8 |
| 256KB | (4) 64K x 8 | (1) 32K x 8 |
| 512KB | (4) 128K x 8 | (1) 32K x 8 |

| CACHE JUMPER CONFIGURATION | | |
|---|---|---|
| **Size** | **JS1** | **JS2** |
| 128KB | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 256KB | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 512KB | Pins 2 & 3 closed | Pins 2 & 3 closed |

| CPU SPEED SELECTION | | | | |
|---|---|---|---|---|
| **Speed** | **JK1** | **JK2** | **JK3** | **JK4** |
| 25MHz | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 33MHz | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 40MHz | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 50iMHz | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 50MHz | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 2 & 3 closed |
| 66iMHz | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 75iMHz | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 80iMHz | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 100iMHz | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |

| CPU TYPE SELECTION | | | | |
|---|---|---|---|---|
| **Type** | **JC2** | **JC3** | **JC4** | **JC5** |
| 80486SX | Open | Pins 2 & 3 closed | Pins 2 & 3 closed | Open |
| CX486DX | Open | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| SL80486DX | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| UMCU5SD | Open | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| UMCU5S | Open | Pins 2 & 3 closed | Pins 2 & 3 closed | Open |
| UMCU5SLV | Open | Pins 2 & 3 closed | Pins 2 & 3 closed | Open |
| CX486DX2 | Open | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| AM486DX2 | Open | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| (SL)AM486DX2 | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| SL80486DX2 | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| AM486DX4 | Open | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| (SL)AM486DX4 | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| 80486DX4 (ODP) | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| 80486DX4 (2x) | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| 80486DX4 (3x) | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| P24D | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| P24S | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |
| P24T | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Closed |
| CXM1 | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed | Open |

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| CPU TYPE SELECTION (CON'T) | | | |
|---|---|---|---|
| **Type** | **RNA** | **RNC** | **RNI** |
| 80486SX | Not installed | Not installed | Pins 1 - 5 closed |
| CX486DX | Not installed | Installed | Not installed |
| SL80486DX | Not installed | Not installed | Pins 1 - 5 closed |
| UMCU5SD | Installed | Not installed | Not installed |
| UMCU5S | Installed | Not installed | Not installed |
| UMCU5SLV | Installed | Not installed | Not installed |
| CX486DX2 | Not installed | Installed | Not installed |
| AM486DX2 | Installed | Not installed | Not installed |
| (SL)AM486DX2 | Not installed | Not installed | Pins 6 - 10 closed |
| SL80486DX2 | Not installed | Not installed | Pins 1 - 5 closed |
| AM486DX4 | Installed | Not installed | Not installed |
| (SL)AM486DX4 | Not installed | Not installed | Pins 6 - 10 closed |
| 80486DX4 (ODP) | Not installed | Not installed | Pins 1 - 5 closed |
| 80486DX4 (2x) | Not installed | Not installed | Pins 1 - 5 closed |
| 80486DX4 (3x) | Not installed | Not installed | Pins 1 - 5 closed |
| P24D | Not installed | Not installed | Pins 1 - 5 closed |
| P24S | Not installed | Not installed | Pins 1 - 5 closed |
| P24T | Not installed | Not installed | Pins 1 - 5 closed |
| CXM1 | Not installed | Not installed | Pins 6 - 10 closed |

| CPU VOLTAGE SELECTION | | | |
|---|---|---|---|
| **Voltage** | **CN3V** | **JPW1** | **JPW2** |
| 3.3v | Open | 1 & 2 | Open |
| 3.45v | Open | 2 & 3 | Open |
| 3.6v | Open | Open | 1 & 2 |
| 4v | Open | Open | 2 & 3 |
| 5v | 1, & 2, 3 & 4, 13 & 14, 15 & 16 | N/A | N/A |
| Note:  Pins designated should be in the closed position. | | | |

| PCI-BUS  CLOCK SELECTION | | |
|---|---|---|
| **CPU clock** | **JCK** | **JT1** |
| <= 33MHz | Pins 1 & 2 closed | Pins 1 & 2 closed |
| >33 MHz | Pins 2 & 3 closed | Pins 2 & 3 closed |

| DMA CHANNEL SELECTION | | |
|---|---|---|
| **Channel** | **JEPP1** | **JEPP2** |
| í  1 | Pins 2 & 3 closed | Pins 2 & 3 closed |
| 3 | Pins 1 & 2 closed | Pins 1 & 2 closed |

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| KEYBOARD SELECTION | | | | |
|---|---|---|---|---|
| **Setting** | **JX3** | **RN1** | **RN16** | **RN19** |
| í Internal controller | Pins 1 & 2 closed | Not installed | Installed | Not installed |
| External controller | Pins 2 & 3 closed | Installed | Not installed | Installed |

| PRINTER PORT SELECTION | | |
|---|---|---|
| **Setting** | **JH** | **JG** |
| í Output | Pins 2 & 3 closed | Pins 2 & 3 closed |
| Input | Pins 1 & 2 closed | Pins 1 & 2 closed |
| Bidirectional | Pins 2 & 3 closed | N/A |