# Product Specifications

**BOCA** RESEARCH
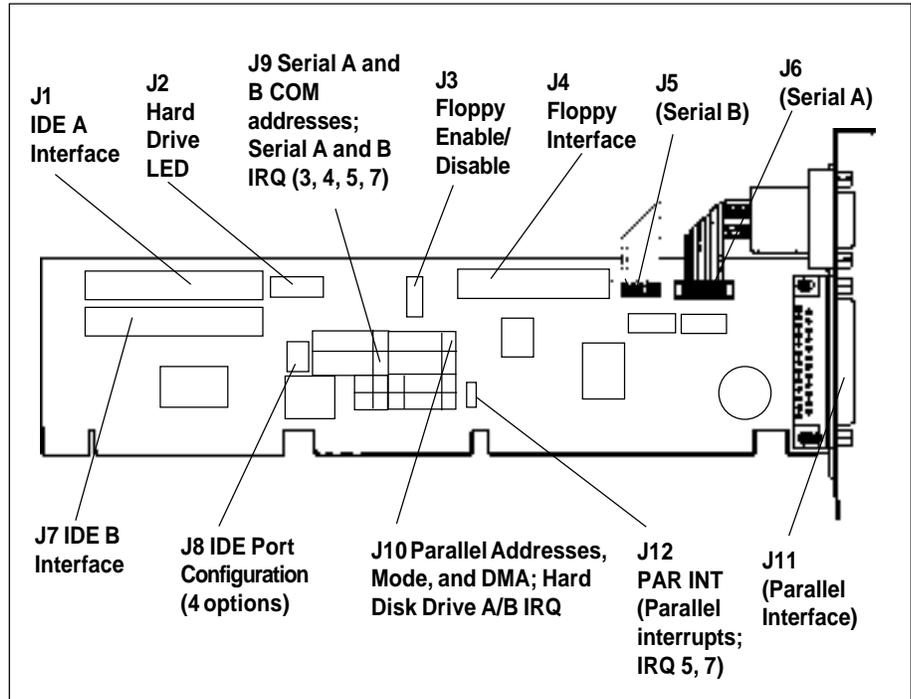
## Product Code: IDEVL2
## Product Name: High-Performance VL-Bus IDE Plus Controller

♦ Specifically designed to work with VESA local bus based systems, with 16-bit interface.

♦ Supports two mode 2 or 3 IDE hard drives.

♦ 360K, 720K, 1.2MB, 1.44MB, 2.88MB floppy support.

♦ Two 16C550 UARTs for high throughput.

♦ Parallel interface with EPP (enhanced parallel port), IEEE 1284 support, and ECP (extended capabilities port).

♦ Ability to enable and disable hard and floppy drives, serial and parallel ports.

♦ Full Modem Control.

♦ Supports high-speed devices attached to the parallel port such as hard drives, tape backup systems, CD-ROM drives, and high-performance printers.

♦ I/O Addresses:

• Serial A: COM1, COM2, COM3; IRQ3, IRQ4, IRQ5, IRQ7; or disabled

• Serial B: COM1, COM2, COM4; IRQ3, IRQ4, IRQ5, IRQ7; or disabled

• Parallel Port: LPT1-2 (378, 278); IRQ5 or IRQ7; or disabled.

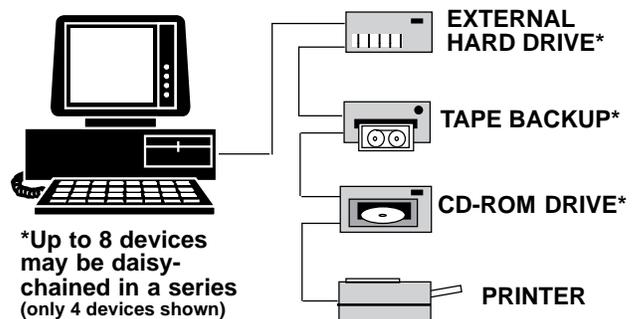The Parallel Port mode settings are defined as follows:

**DEFAULT (standard)**. This setting defines the parallel port as a standard unidirectional port for use with a printer.

**EPP (enhanced parallel port)**. This setting defines the parallel port as an 8-bit bidirectional port for use with hard drives, tape backup systems, and other 8-bit bidirectional devices.

**ECP (extended capabilities port)**. This settings defines the parallel port as a high-performance 8-bit bidirectional port for use with hard drives, tape backup systems, high-performance printers, and CD-ROM drives. This mode also uses DMA to increase performance and reduce system overhead.



**J1 IDE A Interface** **J2 Hard Drive LED** **J9 Serial A and B COM addresses; Serial A and B IRQ (3, 4, 5, 7)** **J3 Floppy Enable/ Disable** **J4 Floppy Interface** **J5 (Serial B)** **J6 (Serial A)**

**J7 IDE B Interface** **J8 IDE Port Configuration (4 options)** **J10 Parallel Addresses, Mode, and DMA; Hard Disk Drive A/B IRQ** **J12 PAR INT (Parallel interrupts; IRQ 5, 7)** **J11 (Parallel Interface)**

**IEEE 1284**. This settings allows the parallel port to operate in any of the modes described above (STANDARD, EPP, and ECP). NOTE: A DMA channel is used in ECP mode ONLY.

EPP and IEEE 1284 modes allow up to 8 devices to be daisy-chain connected. See figure below:



**EXTERNAL HARD DRIVE\***

**TAPE BACKUP\***

**CD-ROM DRIVE\***

**\*Up to 8 devices may be daisy-chained in a series (only 4 devices shown)**

**PRINTER**

**NOTE:** The use of hard disk drives, tape backup systems, CD-ROM drives, etc. will require a device driver which is supplied by vendor of that peripheral device. Refer to the manual which came with that device for information pertaining to installation and use of a device driver.