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Section 2 Indy Configurations

Indy was designed to be easy to set up, easy to use, easy to maintain, and easy to upgrade. Its small footprint and sturdy construction allows it to be placed beneath a large monitor to save desk space. The various components that make up the Indy system have all been designed to get the user up and running quickly and yet provide the necessary flexibility:

- Boards and internal devices are easy to access by removing the Indy top panel.
- Internal SCSI devices are pre-configured and easy to install.
- A floppy disk slot is provided on the right side on the system unit.
- Iconic labels on all input and output connections provide an intuitive, international recognition.
- Indigo Magic software gives a point-and-click simplicity to the power of UNIX.

Indy is available in several different configurations. A typical entry configuration is outlined below.

System Unit

The system unit includes:

- easy-to-upgrade R4600PC CPU module (optional R4600SC CPU Module with a unified 512 KByte secondary cache; optional R4400SC CPU Module with a unified 1 MByte secondary cache)
- base memory of 16 MBytes expandable to 256 MByte using standard SIMMs
- 8-bit graphics Indy Graphics (upgradable to 24-bit planes) supporting a resolution of 1024 x 768 pixels on the standard 15" monitor, or 1280 x 1024 pixels on the optional 16" and 19" multiscan monitors (optional 24-bit XZ Graphics)
- a 540 MByte system hard disk with preloaded IRIX software and an on-line documentation viewer (optional 1.05 GByte system hard disk)
- a second 3.5-inch thin (1.0-inch) SCSI-II expansion drive bay
- two GIO32-bis expansion slots
- advanced audio with built-in speaker and Audio Library support
- video support for NTSC/PAL composite and S-Video formats and digital video formats
- 170 watt power supply

Ports

On the back of the system unit are a number of industry-standard ports:

- PS/2--standard keyboard port
- PS/2--standard mouse port
- high-density Fast SCSI-2 port for external SCSI devices such as disk drives and CD-ROMs
- Ethernet port supporting both AUI and a 10Base-T (auto selecting) for connecting to local networks
- 13W3 monitor connector
- bi-directional Centronics parallel port for color printers, scanners, and other parallel devices
- two Macintosh style 8-pin serial ports for modems, laser printers, MIDI devices, and other serial devices
- SGI digital video port for the IndyCam digital video color camera or other digital video devices
- RCA-style jack for NTSC/PAL composite video input
- 6-pin minidin connector for NTSC/PAL S-Video input
- RJ-45 connection for ISDN network interface
- stereo line-in jack for analog audio input from a tape deck, CD player, or similar source
- stereo line-out jack for analog audio output to a tape deck, amplifier, or similar destination
- stereo microphone input jack for a mic-level audio input
- digital input/output jack for serial digital audio input and output
- stereo output jack for headphones
- StereoView port for StereoView glasses

Input Devices

Indy comes with the following input devices:

- IndyCam digital color video camera
- omnidirectional electret condenser microphone
- PS/2 --standard keyboard
- PS/2--standard 3-button mechanical mouse

Monitors

The following monitors are available:

- 15" color monitor
- RGB monitor
- 1024 x 768 resolution
- 70 Hz refresh rate

- 16" color monitor
- multiscan RGB monitor
 - 1280 x 1024 resolution
 - up to 76 Hz refresh rate

- 19" color monitor
- multiscan RGB monitor
 - 1280 x 1024 resolution
 - up to 76 Hz refresh rate

2.1 Optional Peripherals

Indy has optional internal devices in the 3.5-inch thin (1.0-inch) format as well as many optional Silicon Graphics and third party external peripherals.

2.1.1 Internal Devices

Hard Drives

- 535 MByte, or 1.05 GByte formatted capacity
- 10 MByte burst-mode transfer rate for Fast SCSI-2
- Fast SCSI-2 interface

Floptical Drives

- 20 MByte formatted capacity
- UNIX compatible (using tar or cpio)
- read and write standard 3.5-inch floppy disk or 20 MByte floptical disk
- Macintosh compatible
- PC compatible

2.1.2 External Devices

Storage Devices

- 88 MByte SyQuest drive
- 1.0 GByte 1/4" QIC tape drive
- 2.0 GByte DAT tape drive
- 2.0 GByte hard drive

CD-ROM Drive

- dual speed CD-ROM drive with a 300 KByte/sec sustained transfer rate
- 600 MByte capacity (12 cm disc)
- Fast SCSI-2 interface
- CD quality audio over SCSI bus

Input Devices

- dials box
- dials and buttons box
- digitizer tablet with stylus (115V)
- digitizer tablet with cursor
- optical mouse

2.2 GIO32-bis Expansion Slot Options

Indy provides two GIO32-bis expansion slots for optional video, network, and 3rd party option cards. Table 1 outlines some of the many option cards available now or expected in the near future.

Option Card	Width	Manufacturer
Indy Video(tm) (see Section 6 or the Silicon Studio Technical Report for information)	single	Silicon Graphics
Cosmo Compress(tm) (see the Silicon Studio Technical Report for information)	single	Silicon Graphics
Cindy Video Adaptor	double	Chyron Corporation(r)
Oscon Adaptor	single	Photron(r)
FDDI	double	Silicon Graphics
ATM	single	Fore Systems
Token Ring	single	Silicon Graphics
Sync Serial for X.25 and SNA	single	Silicon Graphics
additional Fast SCSI-II disk controller	single	Silicon Graphics
IVAS VTR control	single	Lyon-Lamb(r)
additional Ethernet controller	single	Silicon Graphics

TABLE 1 Indy GIO32-bis expansion card options.

