Intel® ISP1100 Internet Server Platform

Maximum Density with In-the-Box Scalability

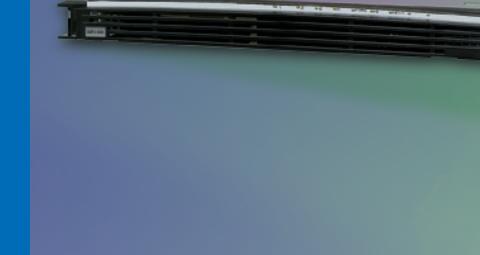## KEY FEATURES

1U, 22" Length Rack-mount Design

Support for Intel® Pentium® III Processor or Intel® Celeron™ Processor

Dual Integrated Intel® Pro/100+ Server Adapters

Up to 1 GB of ECC Memory

Open Platform, Validated on Most Popular OS

Intel® Web-based Management

intel®

Grow Front-end Internet Services on an Affordable Foundation

If high-density, scalability and web-based management are just as important to you as your budget, rely on the Intel® ISP1100 Internet Server Platform as you grow your e-Business. Engineered for quick, high-volume deployment and no-fuss operation, the ultra-dense 1U ISP1100 rack server features industry-leading hardware components built on superior open platform Intel® Architecture—enabling seamless compatibility with operating systems, development tools and applications you need to run a successful data center.

Balanced Server Performance with "In-the-Box" Flexibility and Headroom

Customer base grow exponentially overnight? A new account demands additional services by tomorrow? With the Intel ISP1100, a single 1U box can be used for an array of Internet services in a multitude of server configurations and within various environments. The extremely compact ISP1100 provides a surprising amount of scalable, "in-the-box" headroom—with up to 1 gigabyte of ECC SDRAM, dual Intel® Pro/100+ Server Adapters, two PCI cards—and support for either the Intel® Pentium® III processor or the Intel® Celeron™ processor.

Whether you're serving static content or the latest dynamic applications, the Intel ISP1100 is an ideal base platform to serve front-end services or scale up to more complex e-Business capabilities.

Innovative Features to Manage Growth

The build-out and maintenance of a rapidly growing infrastructure can present a sizable challenge. The ISP1100 incorporates innovative technology to help you easily deploy, manage, and scale your e-Business for continued success. Designed in features such as front and back serial ports, additional space for cable management and tool-less access to hard drives and fans enable fast efficient repairs and upgrades. And the slim, 1U design makes the ISP1100 a perfect fit for open-air or closed cabinet-style racks.

Lights Out Management: Deploy, Manage, Refactor

Optimized for lights out management, the ISP1100 supports "headless" installation with specific operating systems,[†] providing significant time-savings and system standardization when deploying multiple ISP1100s— either on site or remotely. The same installation process can be used to efficiently refactor and redeploy your ISP1100s by simply altering a boot image.

In addition, the Intel ISP1100 offers quick and easy web-based management using a standard web browser. By monitoring the health status of components, Intel's web-based management helps you identify potential problems, alerting you for quick response should a preset parameter exceed its threshold.

World Class Engineering, Worldwide Support

Intel® Internet Server Platforms are built from the ground up for high reliability, scalability and easy integration. In addition to a three-year limited warranty on board and chassis and toll-free, worldwide technical phone support, Intel offers next business day replacement of warranty parts to keep mission-critical products up and running.[††]

For effortless maintenance and real-time 7x24 technical information, Intel's extensive support web site features the latest drivers and updates as well as a searchable knowledge-base for troubleshooting and problem solving, top technical issues, and links to all Intel individual product support solutions.

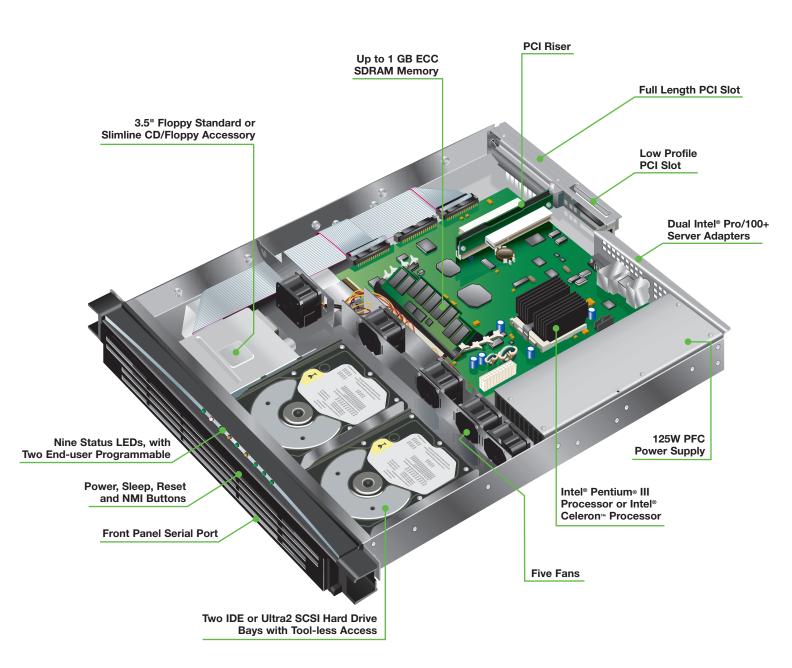| Features	Benefits
Compact 1U (1.70") x 22" L x 16.75" W for rack server design	High density design for easy deployment and solid performance per inch, includes additional 1.5" for cable management
Support for either Intel® Pentium® III or Intel® Celeron™ processor	Processing performance for less demanding services with ability to easily scale to support more robust Internet applications
Support for up to 1 GB of ECC SDRAM memory, dual NICs and two additional PCI slots	Ample headroom built "in-the-box" for future expansion and scalability
Intel Lights Out Server Management	Innovative technology that enables high-volume headless deployment, remote operation and monitoring, and proactive management throughout the lifecycle of the product
Built on open platform Intel® Architecture	Seamless interoperability with most popular operating systems, development tools and applications

[†]Headless is defined as no monitor, keyboard or mouse required. For the latest updates and guides on operating systems that support headless install, visit *http://www.intel.com/network/products/isp1100.htm*

[††]Some restrictions apply. Not available in all countries.

Intel® ISP1100 Internet Server Platform

Ready to Expand Your Data Center?

Intel's most affordable high-density server is designed to deliver a unique combination of web-based management, reliable hardware, flexibility and value in a compact, easy to use server platform.

Up to 1 GB ECC SDRAM Memory

PCI Riser

Full Length PCI Slot

Low Profile PCI Slot

3.5" Floppy Standard or Slimline CD/Floppy Accessory

Dual Intel® Pro/100+ Server Adapters

Nine Status LEDs, with Two End-user Programmable

Power, Sleep, Reset and NMI Buttons

Front Panel Serial Port

125W PFC Power Supply

Intel® Pentium® III Processor or Intel® Celeron™ Processor

Five Fans

Two IDE or Ultra2 SCSI Hard Drive Bays with Tool-less Access

www.intel.com/network/products/internet_infrastructure.htm

Intel® ISP1100 Internet Server Specifications

Processor/Cache

Processors Supported (PGA370)	Intel® Pentium® III processors 750 MHz, 700 MHz, 650 MHz, 600E MHz, 550E MHz and 500 MHz with 256 KB of L2 cache
	Intel® Celeron™ processors 566 MHz, 533 MHz, 500 MHz, 466 MHz, 433 MHz, 400 MHz and 366 MHz with 128 KB of L2 cache
Intel® Chipset	Intel® 82440BX AGPSet consists of Intel® 82443BX PCI/AGP Controller (PAC) and Intel® 82371EB PCI ISA IDE Xcelerator (PIIX4E)

System Memory

Memory Capacity	Four 25°-angle DIMM sockets for 16 MB to 1 GB SDRAM
Memory Type	PC-100 100 MHz or 66 MHz registered or unbuffered SDRAM, 72-bit ECC or 64-bit non-ECC, 168-pin gold-plated DIMMs
DIMM Sizes	Registered: 64 MB, 128 MB and 256 MB Unbuffered: 16 MB, 32 MB, 64 MB, 128 MB and 256 MB
Memory Voltage	3.3V only
Error Detection	Corrects single-bit errors, detects double-bit errors (using ECC memory)
Expansion Slot	One full-length slot and one low-profile slot (32-bit/33 MHz) on passive riser card
Integrated Intel® Network Adapter	Two stacked Intel® Pro/100+ Server Ethernet Controllers (Intel® 82559)
	Supports 100BASE-T and 10BASE-T, RJ45 output

Integrated PCI/ISA IDE Xcelerator (PIIX4E)

IDE	Two independent channels for a total of four IDE devices
	PIO Modes 0 to 4, ATA-33 and CD-ROM support
USB	Two stacked USB connectors

Integrated Super I/O

Controller	SMSC* FDC37B807
Serial Ports	Two Asynch, RS-232C, 9 pin (1 rear, 1 front)
Floppy Controller	1.44 MB, 2.88 MB, 3-mode support
Keyboard/Mouse	Two interchangeable PS/2 connectors

Front Panel

LED Indicators	Power, Status, Hard Drive Activity, two LAN Link/Activity, two LAN 100Mbps and two User-programmable
Switches	Power, Sleep, Reset and NMI (Non-maskable Interrupt)
I/O Port	Serial port B
Jumpers and Connectors	CMOS clear, BIOS recovery, password clear, Wake on LAN (WOL), Wake on Ring (WOR), SCSI LED

System BIOS

BIOS Type	8-Mbit Flash EEPROM with AMIBIOS* BIOS 7.0, Multiboot BIOS Boot Specification 1.01 (BBS) compliant
Special Features	Plug and Play, IDE drive autoconfigure, SMBIOS 2.3, ECC/Parity, multilingual, LAN/serial console redirection and Network boot using Preboot Execution Environment 2.0 (PXE)

Server Management Instrumentation

Failure Detection	Voltage variation, thermal, operating system Watchdog Timer, fan failure, processor status and ECC memory
Remote Power Control	Power up using WOR and WOL
	Power off through GUI management console and Reboot-on-Break
Event Logging	Nonvolatile storage to prevent loss of logs in event of system failure
Security	Video blanking and password protection

Intel® Web-based Server Management

Managed Server	Operating systems supported: Windows NT* 4.0 Server and Red Hat* Linux 6.1
Management Console	Web-based management console (Internet Explorer* 4.0/SP1 and Netscape* 5.0)
	Integrates into HP OpenView*
System Health Monitor	Temperature, voltage, system fans, ECC memory, hard drives, and OS hang monitoring via Watchdog Timer
Alert Notification Methods	Pager alert, LAN alert, SNMP traps, System Event Log, and continuous speaker beep alert
Critical Event Actions	Gracefully shutdown operating system with reboot or power off at administrator's discretion
	Immediate power off, reset

Environment

Ambient Temperature	Operating +10°C to +35°C to 5000 ft. De-rated 1°C/1000 to 10000 ft. Maximum rate of change of 10°C per hour.
Non-operating Temperature	-40°C to +70°C ambient
Non-operating Humidity	95%, non-condensing @ 30°C
Acoustic Noise	< 45 dBA @ 23°C±2°C

Safety Regulations

USA/Canada	UL1950, 3rd Edition/CSA 22.2, No. 950M93, 3rd Edition
Europe CE Mark	Low Voltage Directive, 73/23/EEC TUV/GS to EN60950 2nd Edition with Amendments, A1 = A2 + A3 + A4
International	CB Certificate and Report to IEC 60950, 3rd Edition including EMKO-TSE (74-SEC) 207/94 and other national deviations

EMI/RFI

USA	FCC 47 CFR Parts 2 and 15, Verified Class A Limit
Canada	IC ICES-003 Class A Limit
Europe	EMC Directive, 89/336/EEC
	EN55022, Class A Limit, Radiated & Conducted Emissions
	EN55024, Immunity Standard for Information Technology Equipment
	EN61000-3-2 Harmonic Currents
	EN61000-3-3 Voltage Flicker
Australia/New Zealand	AS/NZS 3548, Class A Limit
Japan	VCCI Class A ITE (CISPR 22, Class A Limit) IEC 1000-3-2; Harmonic Currents
Taiwan	BSMI, Class A (CISPR 22)
Russia	Gost Approval
International	CISPR 22, Class A Limit

System

Form Factor	1U, rack-mountable
Rackmount	Midmount brackets or sliding rails (optional)
Height	1.70" (43.18mm)
Width	16.75" (425.45mm)
Depth	22.00" (558.80mm) (20.50" without bezel)
Weight	23 lbs. (maximum configuration)
Fans	Five 40mm variable-speed fans with tachometer output
3.5" Drive Bay	One standard 3.5" diskette drive or slim-line CD-ROM/diskette drive combo (optional)
Hard Drive Bay	Two 1" IDE or LVD/SE 68-pin SCSI hard drives (SCSI requires 3rd-party controller)

PFC Power Supply

AC Voltage and Frequency	90-135, 180-265 VAC (40/63 Hz)
DC Power Supply	125W
+5VDC	13A maximum
+5VDC Standby	1.0A maximum
+12VDC	3.0A maximum
+3.3VDC	6.0A maximum
-12VDC	0.2A maximum
Remote Voltage Sense	Senses voltage levels on server board for more precise power supply voltage regulation, leading to more efficient use of power

Intel Order Codes:

ISP1100 (server)
Ai1100 Spareskit (spare kit)
Ai1100 Sparemisc (cable spare kit)
Ai1100 Sparepack (spare package)
Ai1100 CDfloppy (slimline CD/floppy option kit)
Ai1100 Railkit (rail option kit)
Ai1100 SCSICbl (SCSI cable option kit)