Intel® ISP1100 Internet Server Platform

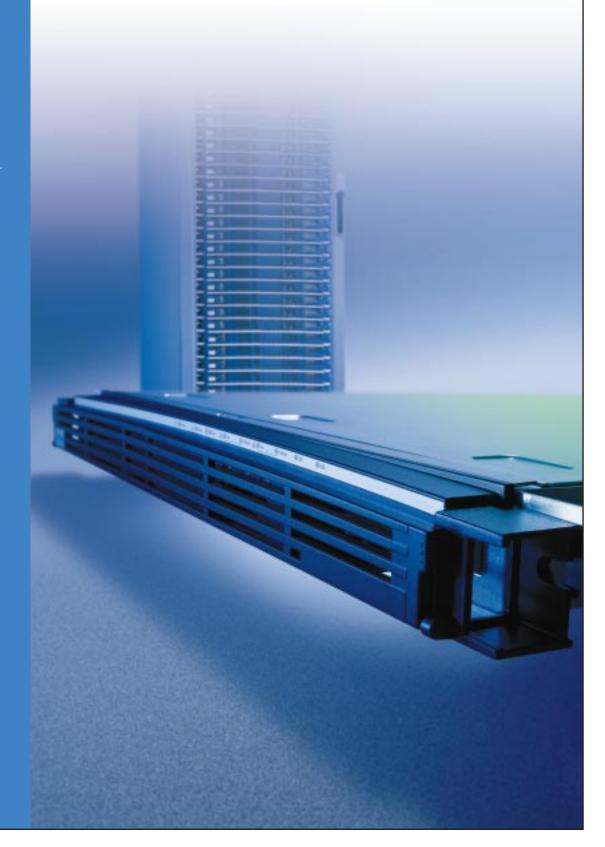
Maximum Density, Flexibility, & Scalability to Power your e-Business

Product Brief

Support for the Intel® Pentium® III processor

Compact 1U, Rack-Optimized Design

Two Integrated Intel® Pro/100+ Server Adapters





High-Density Uni-Processing Server Platform for e-Business Applications

High Density with the Power of the Intel® Pentium® III Processor

If high density, scalability, and Web-based management are important to you, rely on the Intel® ISP1100 1U rack server platform as you grow your e-Business. Engineered for quick, high-volume deployment and ease of use, the ultra-dense ISP1100 1U rack server platform features the power of the Intel® Pentium® III processor and the industry-leading hardware you need to successfully run and expand your business.

Server Performance with Flexibility and Scalability

The ISP1100 1U rack server platform can be used in multiple server configurations and within various environments. Well suited for any business with space or budget constraints, the extremely compact ISP1100 provides a surprising amount of scalable power in a highly dense system. The ISP1100 supports up to 1 GB of ECC SDRAM and two PCI cards, has two onboard Intel® Pro/100+ Server Adapters, and can support either the Intel® Pentium® III processor or the Intel[®] Celeron[™] processor. These flexible features make the Intel ISP1100 an ideal platform for front-end services or for scaling to handle more complex e-Business capabilities.

Innovative Features to Manage Growth

The ISP1100 incorporates innovative technology to help you easily deploy, manage, and scale your e-Business for continued success. It is full of features that enable fast, efficient installation, upgrades, and service, including front and back serial ports, additional space for cable management, and tool-less access to hard drives. The slim 1U design makes the ISP1100 a perfect fit for openair or closed-cabinet-style racks.



Easy to Deploy, Use, and Manage

The Intel® ISP1100 offers hardware-based remote server management that helps make the platform easy to use and manage. By monitoring the health of key components, this built-in management system can help identify potential problems, even at remote sites. Should a preset parameter exceed its threshold, built-in server intelligence can alert you via page or central console for quick response. You can take control of the system remotely over the LAN or WAN, or access the front-panel serial port for BIOS setup/update or text-based applications.

For ease of deployment, the ISP1100 has a built-in utility that allows Linux¹ operating system users to simultaneously deploy multiple ISP1100 systems. This "headless" installation process provides significant time savings and system

standardization when deploying large volumes of servers either on-site or remotely. The same process can be used to efficiently re-purpose your ISP1100s by simply altering a boot image and re-deploying.

Service, Support, and Three-Year Limited Warranty

Through its authorized dealers, Intel offers several features to enhance customer satisfaction. These include a three-year limited warranty, next-business-day replacement of in-warranty Intel server building blocks², and optional spares kits to enable same-day service. In addition, Intel provides access to support personnel for assistance with technical questions, and dedicated Web sites such as http://support.intel.com and http://support.intel.com/go/serverbuilder

Features Benefits

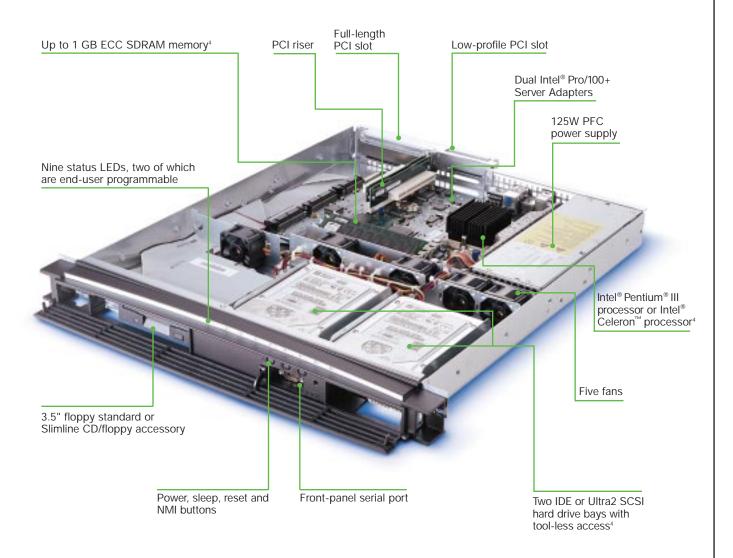
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|--|---|
| Support for the Intel® Pentium® III processor and the Intel® Celeron™ processor³ | Intel® Pentium® III processor-based performance in minimum space and an Intel® Celeron processor option for less demanding applications |
| Compact 1U rack-optimized server design (1.70" H x 22" L x 16.75" W) | High-density design for easy deployment and solid performance per inch, includes additional 1.5" for cable management |
| Support for up to 1 GB of ECC SDRAM memory | Ample memory capacity for a wide variety of server needs |
| Two integrated Intel® Pro/100+ Server Adapters | Excellent network capabilities without filling any PCI slots, leaving all PCI slots open for future expansion |
| Two PCI slots (32-bit/33 MHz, one full-height, one low-profile) | Flexibility and scalability |
| Intel Web-based Server Management | Innovative technology that enables high-volume headless deployment, remote operation and monitoring, and proactive management throughout the lifecycle of the product |
| Three-year limited warranty | Peace of mind |
| Designed by Intel | Performance, value, and choice that you expect from Intel |

¹ For optimized versions of Linux, or additional information on headless installation, see http://www.intel.com/network/products/isp1100.htm

² Some restrictions apply. Not available in all countries.

See http://support.intel.com/support/motherboards/server/isp1100 for a full list of supported processors.

Intel® ISP1100 Internet Server Platform



Affordable Density

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.



- 1. Power receptacle 2. Two PS/2 ports 3. Two USB ports 4. Two Ethernet ports
- 5. Back serial port

⁴ Memory, harddrives, and processor not included.

Intel® ISP1100 Internet Server Platform Specifications

| Processor & Chipset |
|--------------------------------|
| Processors Supported |

Intel® Pentium® III processors with PGA370 package and the Intel® Celeron™ processor. For the latest processor support, go to: http://support.intel. com/support/motherboards/server

Intel® 82440BX AGPSet consists of Intel® 82443BX Chipset PCI/AGP Controller (PAC) and Intel® 82371EB PCI ISA IDE Xcelerator (PIIX4E)

System Memory

Memory Capacity Memory Type

Four 25°-angle DIMM sockets for 16 MB to 1 GB SDRAM 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

Error Detection Corrects single-bit errors, detects double-bit errors

(using ECC memory)

Expansion Slots

PCI Slots One full-length PCI slot and one low-profile PCI slot (32-bit/33 MHz) on passive riser card

Integrated Onboard

Ethernet Controller

Two stacked Intel® Pro/100+ Server Ethernet Network Adapter Controllers (Intel® 82559) Supports 100BASE-T and 10BASE-T, RJ45 output

IDE Xcelerator 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

Super I/O Controller SMSC* FDC37B807

Floppy Controller 1.44 MB, 2.88 MB, 3-mode support Keyboard/Mouse Two interchangeable PS/2 connectors

Serial Ports Two asynchronous, RS-232C, 9-pin (1 rear, 1 front)

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 **Jumpers & Connectors**

on LAN (WOL), Wake on Ring (WOR), SCSI LED

System BIOS

BIOS Type 8-Mbit Flash EEPROM with AMIBIOS* BIOS 7.0, Multi-

boot BIOS Boot Specification 1.01 (BBS)-compliant

Special Features Plug and Play, IDE drive autoconfigure, SMBIOS 2.3, CC/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-down through GUI management console and Reboot-on-Break

Nonvolatile storage to prevent loss of logs in **Event Logging**

event of system failure

Security Video blanking and password protection

Intel® Web-based Server Management

Operating systems supported: Windows NT* 4.0 Server and Red Hat* Linux 6.1 Managed Server

Web-based management console (Internet Explorer* Management Console 4.0/SP1 and Netscape* 5.0) Integrates into HF

Temperature, voltage, system fans, ECC memory, hard drives, and OS hang monitoring via watchdog timer System Health Monitor

Pager alert, LAN alert, SNMP traps, system event **Alert Notification** methods log, and continuous speaker beep alert

Critical Event Actions Gracefully shutdown operating system with reboot or power-down at administrator's discretion, immediate power-down, reset

Environment Ambient Temperature

Non-operating

Operating +10°C to +35°C to 5,000 ft. De-rated 1°C/1000

to 10,000 ft.

Maximum rate of change of 10°C per hour.

-40°C to +70°C ambient

Relative Humidity 95%, non-condensing @ +30°C Non-operating Acoustic Noise <45 dBA @ 23°C±2°C

Safety Regulations

UL1950, 3rd Edition/CSA 22.2, No. 950M93, USA/Canada

3rd Edition

Europe CE Mark Low-Voltage Directive, 73/23/EEC TUV/GS to EN60950 2nd Edition with Amendments, A1 = A2 + A3 + A4

> CB Certificate and Report to IEC 60950, 3rd Edition including EMKO-TSE (74-SEC) 207/94

and other national deviations

FMI/RFI

International

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 and 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

VCCI Class A ITE (CISPR 22, Class A Limit) IEC Japan

1000-3-2; Harmonic Currents BSMI, Class A (CISPR 22)

Taiwan Russia Gost Approval

CISPR 22, Class A Limit International

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 third-party controller)

PFC Power Supply

90-135, 180-265 VAC (40/63 Hz) AC Voltage & Frequency

DC Power Supply 125W +5VDC

13A 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 Spare Kit Ai1100 Spares Cable Spare Kit Ai1100 Sparemisc Spare Packaging Ai1100 Sparepack
Slimline CD/floppy Option Kit Ai1100 CDfloppy

Rail Option Kit Ai1100 Railkit Spare Black Bezel Ai1100bezelblk Front Mount Kit Ai1100frontmnt SCSI Cable Option Kit Ai1100 scsicbl

For the most current product information on all of Intel's server building blocks, visit the web site at:

www.intel.com/go/serverbuilder and www.intel.com/network/products/internet_servers.htm

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^{*}Other brands and names are the property of their respective owners.