

# SI-2Ps Server Board

**Specified Design For High Performance  
Internet Security Appliances server board**

**Dual Intel® Xeon™, Maximum 8GB DDR Memory, 6 Gigabit LANs,  
with Integrated Cavium NITROX IPsec/SSL ASIC**

SI-2Ps server board is purposely designed to offer enterprises a comprehensive network security appliance. Its embedded Cavium NITROX CN1120 IPsec/SSL controller delivers up to 1,000Mbps of IPsec traffic or 14,000 RSA operations per second, and three Intel® 82546EB dual-port Gigabit Ethernet controllers process vast amounts of critical data throughput. This SI-2Ps motherboard is optimized for price/performance balanced hardware architectures, and is an ideal solution for VPN gateways and SSL web servers.

## Key Features

Dual socket 604 for Intel® Xeon™ processor with a 512KB L2 cache

Intel® E7501 chipset

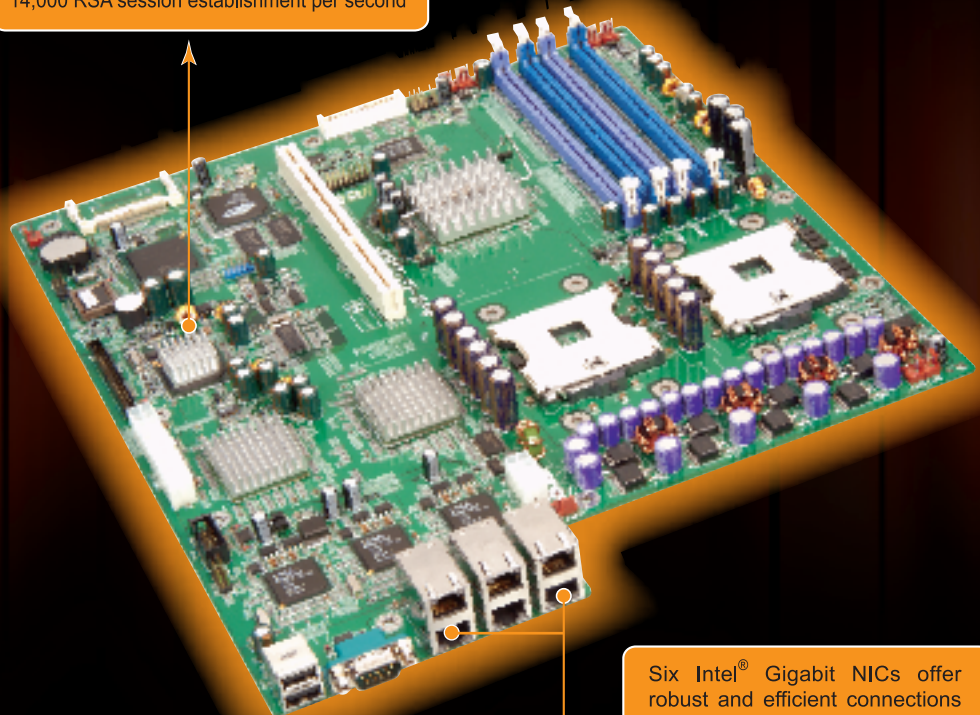
Four 184-pin DIMM sockets, supporting up to 8GB registered, ECC DDR266 memory

Integrated Cavium NITROX CN1120 security processor

Six gigabit Ethernet LAN ports (Intel® 82546EB)

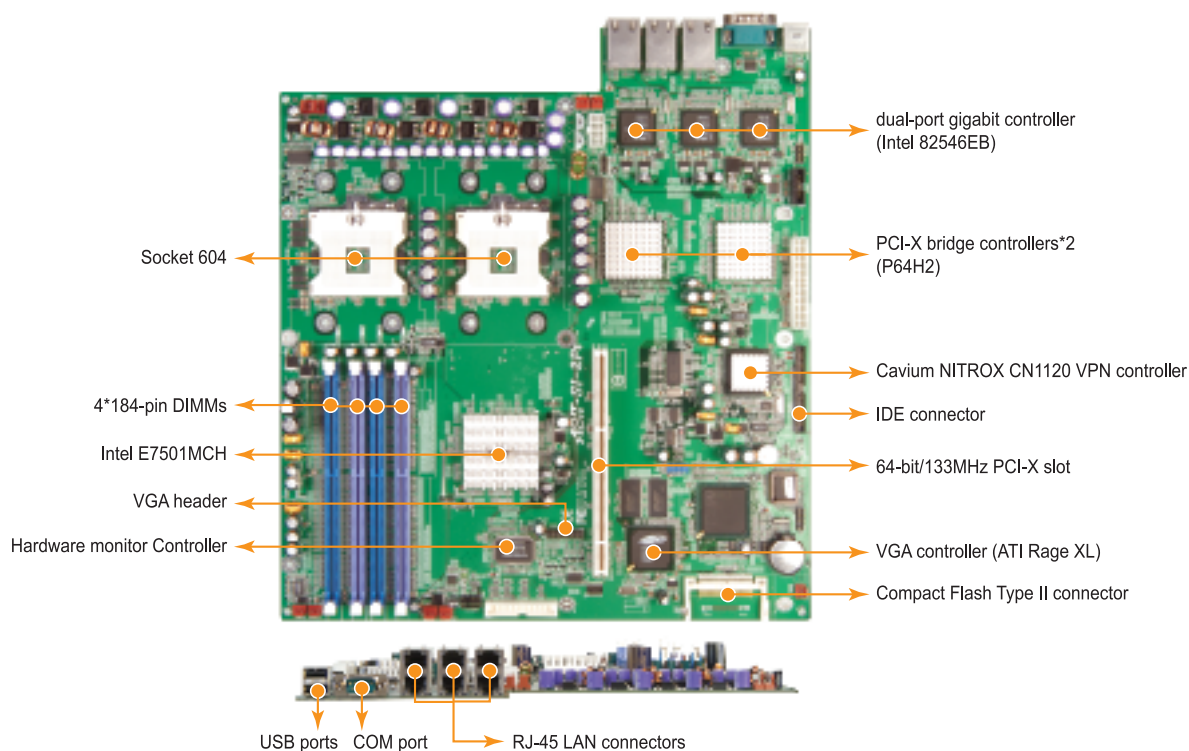
One 64-bit/133MHz PCI-X expansion slots

Cavium NITROX CN1120 IPsec/SSL ASIC operates up to 1,000Mbps of IPsec traffic, or 14,000 RSA session establishment per second



Six Intel® Gigabit NICs offer robust and efficient connections for network appliances, and also feature teaming capability and load balancing b/w ports.

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## Specifications

### Processor

- Supports Dual Intel, Xeon™ processor up to 3.06GHz and faster

### Chipset

- The Intel® E7501 Chipset Memory Controller Hub (MCH)
- Intel 82801CA I/O Controller Hub 3-S (ICH3-S)
- Two Intel 82870P2 64-bit PCI/PCI-X Controller Hub 2 (P64H2)
- Cavium NITROX CN1120 IPSec/SSL ASIC

### Memory

- Four 184-pin DIMM sockets with two-way interleaving
- Supports up to 8GB DDR266 registered, ECC memory
- Chipkill™ technology support

### Networking

- On board Intel® 82546EB dual-port gigabit Ethernet controller \*3, supporting six 10/100/1000Mb operation
- RX/TX IP and TCP/UDP checksum off-loading capabilities

### Expansion Slots

- One 64-bit/133MHz PCI-X slot

### Host I/O Interface

- One channel Ultra33/66/100 IDE

### Graphics

- On board ATI RAGE XL PCI interface VGA with 4MB local SDRAM memory

### Internal I/O Connections

- One 44 pin IDE header
- One VGA header
- One Com port header (COM2)
- One Parallel port pin header
- One USB header
- One Compact Flash Socket
- One SM Bus header (For SM Bus and I²C)

### External Accessible I/O

- Two USB connectors
- One COM port connector
- Six RJ-45 with front panel LAN Active/Link LED

### System BIOS

- Award Plug and Play BIOS, supporting APM, DMI, and ACPI
- 4M-bit Flash ROM

### Hardware Monitoring

- Embedded Winbond® W83627HF hardware monitor ASIC
- Three sets of thermal sensors for systems and two fan speed sensors
- Chassis intrusion detector
- Winbond® Hardware Doctor™ Utility

### Form Factor

- EEB 3.0 compliance, 12"X13"
- EPS12V PSU

For further product information, please contact [server\\_sales@abit.com.tw](mailto:server_sales@abit.com.tw)

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