



# SI-1Ns

## Security Appliance Motherboard with the Best Cost/Performance

**Intel® Pentium™ 4, 2GB DDR memory, 2 10/100Mb Ethernet LANs with Integrated Cavium NITROX VPN/SSL ASIC**

### Key Features

One socket 478 for Intel® Pentium™ 4 processor with a 512KB L2 cache and 533MHz FSB

Intel® 845GV chipset with integrated Intel® Extreme Graphics

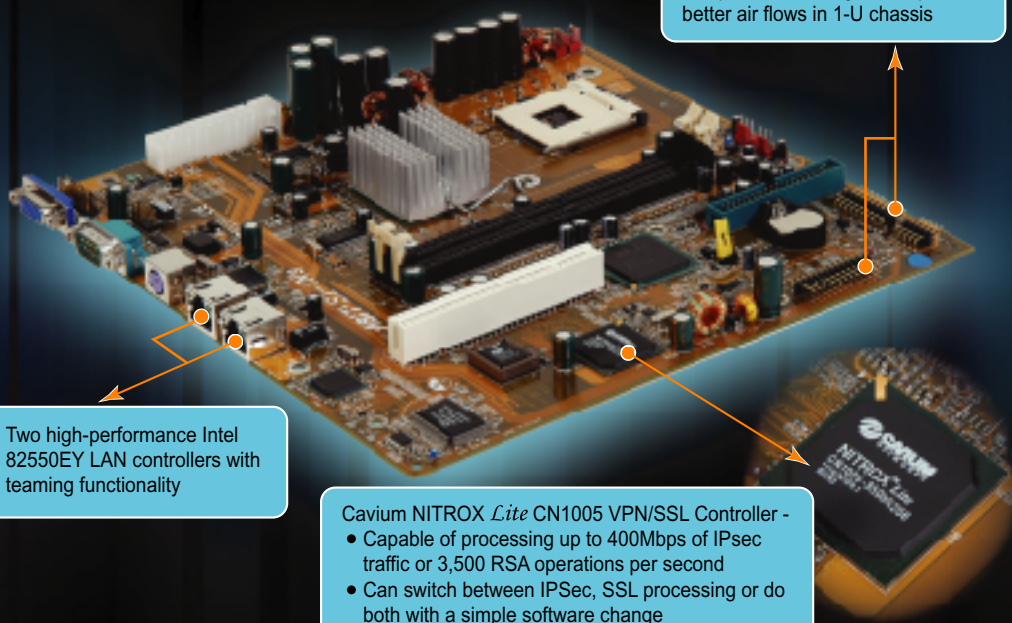
Integrated Cavium NITROX *Lite* CN1005 security processor

Two 184-pin DIMM sockets, supporting up to 2GB unbuffered memory

Two Intel® 82550EY Fast Ethernet LAN controllers with IPSec encryption engine

One 32bit/33MHz PCI expansion slot, supporting 3.3V & 5V PCI cards

The SI-1Ns is the industry's first Intel® Pentium™ 4-based motherboard with Cavium NITROX IPSec/SSL processor onboard. The embedded Cavium's NITROX *Lite* CN1005 processor features cost benefit and flexibility by supporting IPSec, SSL processing or both with a simple software change. Combined the computation power of Intel's Pentium 4 processor and the Cavium's NITROX *Lite* CN1005 security processing engine, the SI-1Ns is capable of processing up to 400Mbps of IPSec traffic or 3,500 RSA operations per second. This SI-1Ns motherboard, aiming to bring affordable high performance security to the mass market, can be used for a wide variety of security appliances, such as VPN gateways, integrated firewall/VPNs, SSL web servers, SSL VPNs, and content balancers.



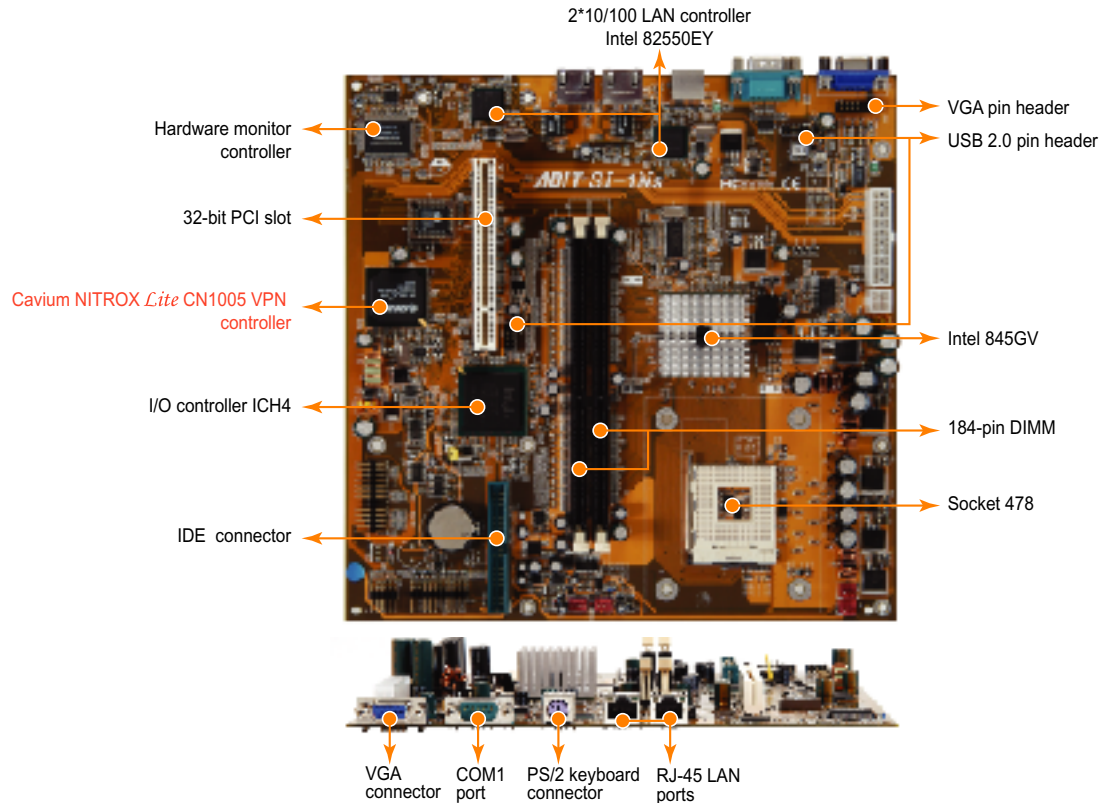
Flat mounted pin headers to avoid component crossing and to provide better air flows in 1-U chassis

Two high-performance Intel 82550EY LAN controllers with teaming functionality

Cavium NITROX *Lite* CN1005 VPN/SSL Controller -

- Capable of processing up to 400Mbps of IPSec traffic or 3,500 RSA operations per second
- Can switch between IPSec, SSL processing or do both with a simple software change

# SI-1Ns Security Appliance Board



## Specifications

### Processor

- Supports single socket 478 for Intel® Pentium 4 processor of up to 2.8GHz and faster with a 512KB L2 cache and 533MHz system bus

### Chipset

- Intel® 845GV Chipset Memory Controller Hub (MCH) with integrated Intel® Extreme Graphics
- Intel® 80201DB I/O Controller Hub (ICH4)
- Cavium NITROX Lite CN1005 VPN/SSL ASIC

### Memory

- Two 184-pin DIMM sockets for non ECC, un-buffered memory module
- Supports up to 2GB DDR200/266 memory capacity

### Networking

- On board two Intel® 82550EY Ethernet controllers, supporting two 10/100Base-T LAN ports
- Supports Wake-On-LAN functionality

### Graphics

- Integrated support by Intel® 845GL

### PCI Expansion Slot

- One 32-bit/33MHz PCI expansion slot for riser card (optional) that supports both 3.3V and 5V PCI cards

### Host I/O Interface

- One channel Ultra 33/66/100 IDE interface

### Internal I/O Connections

- Two USB pin headers, each supports two USB device connections
- One VGA pin header
- One COM port pin header (For COM2)
- One Parallel port pin header
- Disk-On-Module (DOM) connection support

### External Accessible I/O

- PS/2 keyboard connector
- Two RJ-45 LAN connectors
- One COM port connector (For COM1)
- One VGA connector

### System BIOS

- Phoenix/Award Plug and Play BIOS
- 4M-bit Flash ROM

### Hardware Monitoring

- Embedded Winbond® W83627 hardware monitor ASIC
- Three sets of thermal sensors for systems and three fan speed sensors
- Winbond® Hardware Doctor™ Utility

### Form Factor

- Micro ATX, 9.6" x 9.6"
- ATX 12V PSU

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

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