

# SI-1Ns42

## The Intelligent Hardware Platform for Security Appliances

**Intel® Pentium™ 4, 2GB DDR memory, 4 Fast Ethernet/2 Gigabit Ethernet  
with Integrated Cavium NITROX IPsec/SSLASIC**

SI-1Ns42 features an Intel® Pentium™ 4-based motherboard with Cavium NITROX Lite CN1005 IPsec/SSL ASIC, four 10/100 Ethernet, and two Gigabit Ethernet ports. The embedded Cavium security processor features a definite cost advantage and the flexibility to implement various networking appliances. The SI-1Ns42 is capable of processing up to 400Mbps of IPsec traffic or 3,500 RSA operations per second to secure remote access over Internet transmissions. In addition, Cavium driver support allows superior time to market.

### Key Features

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

Intel® 845GV chipset with integrated Intel® Extreme Graphics

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

Integrated Cavium NITROX Lite CN1005 security processor

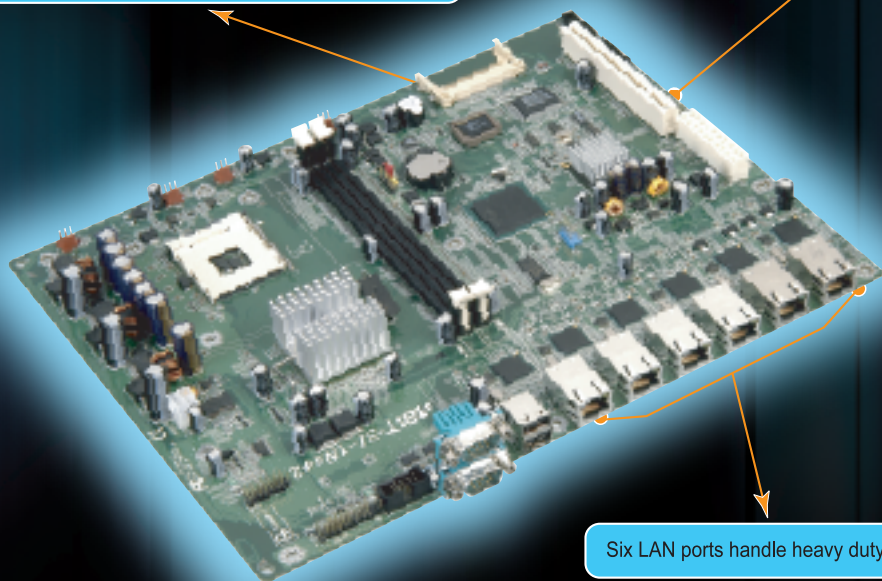
Four Intel® 82551ER Fast Ethernet LAN and Two Intel® 82541ER Gigabit Ethernet LAN

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

Cavium NITROX Lite CN1005 IPsec/SSL Controller -

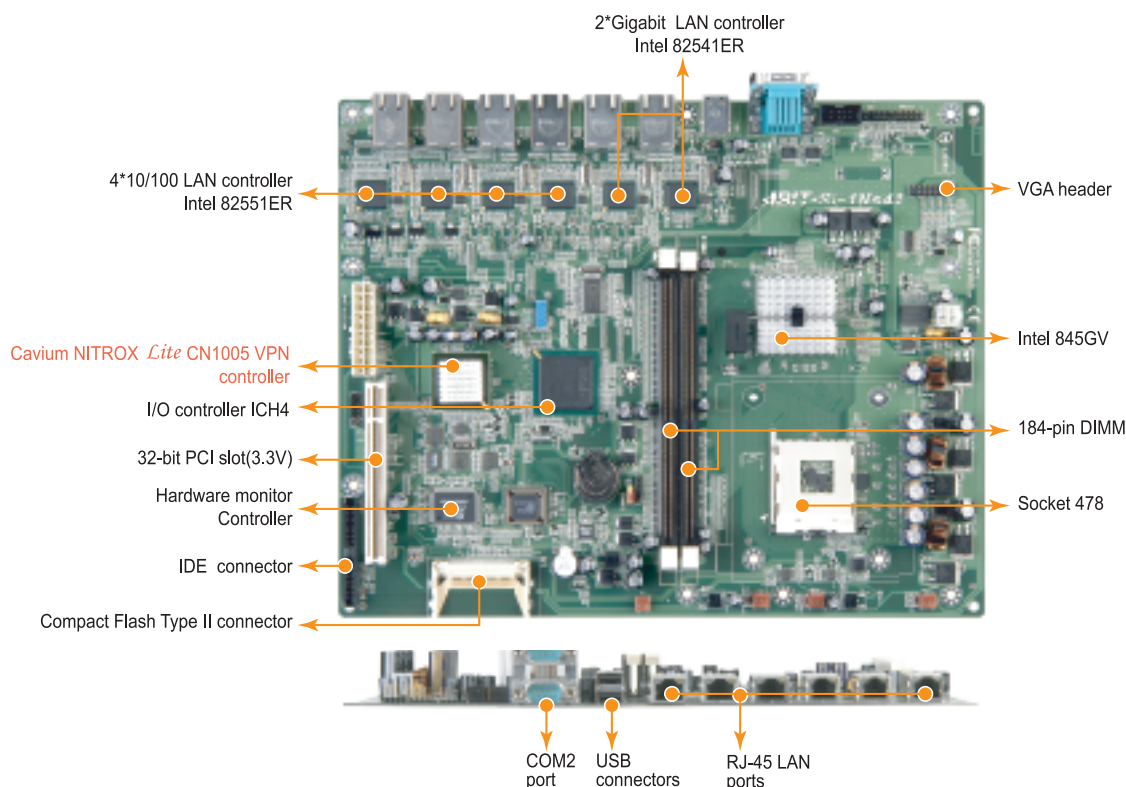
- Capable of processing up to 400Mbps of IPsec traffic or 3,500 RSA operations per second
- Can switch between IPsec, SSL processing or do both with a simple software change

Optional 3.3v riser card features add-on capability for enhanced system flexibility in 1U rack-mount chassis



Six LAN ports handle heavy duty traffic

# SI-1Ns42 Security Appliance Board



## Specifications

### Processor

- Supports single socket 478 for Intel® Pentium 4 processor of up to 3.06GHz 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 IPSec/SSL ASIC

### Memory

- Two 184-pin DIMM sockets for non ECC, un-buffered memory module
- Supports up to 2GB DDR200/266/333 memory capacity

### Networking

- On board two Intel® 82551ER Ethernet controllers, supporting four 10/100Base-T LAN ports
- Supports Wake-On-LAN functionality
- One board two Intel® 82541ER Gigabit Ethernet controllers, supporting two 10/100/1000Mb operations

### Graphics

- Integrated support by Intel® 845GL

### PCI Expansion Slot

- One 32-bit/33MHz PCI expansion slot for riser card that supports 3.3V

### Host I/O Interface

- One channel Ultra 33/66/100 IDE interface

### Internal I/O Connections

- One PS2 Keyboard / Mouse header
- One USB pin headers, each supports two USB device connections
- One VGA pin header
- One COM port header
- One Parallel port pin header
- Disk-On-Module (DOM) connection support
- One Compact Flash connector
- One SM Bus header (For SM Bus and I2C)

### External Accessible I/O

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

### System BIOS

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

### Hardware Monitoring

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

### Form Factor

- ATX, 12" 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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