

# NA-821

1U Rackmount Network Appliance Platform with LGA775 Intel® Core™2 Quad/Core™2 Duo Processor, 2 PCIe I/O Modules and up to 11 LANs



## Introduction

The NA-821 has up to 11 Gigabit Ethernet ports thru PCIe/PCI interface and up to 4-group LAN bypass segments. The system supports an Intel® Core™2 Quad/Core™2 Duo processor with a 800/1066/1333 MHz frontside bus and is equipped with the Intel® Q35+ICH9DO Express chipset. For greater flexibility and easier maintenance, the NA-821 has two front-accessible expansion slots that allow developers to configure PCIe LAN modules based on their solution requirements. The NA-821 supports two DDR2 667/800 DIMM sockets up to 4GB memory. Additionally, the NA-821 has storage interfaces including two SATA 2.5" HDD and CompactFlash™. To prevent problems from platform shutdown, the NA-821 supports up to four groups of LAN bypass function through WDT and GPIO pin definitions. The network security platform also offers powerful management functions, including BIOS redirection and SNMP (optional).

## Specifications

System	
CPU	LGA775 socket for Intel® Core™2 Duo/ Core™2 Quad processor with FSB 800/1066/1333 MHz
Chipset	Intel® Q35 + ICH9DO
Memory	2 x DDR2 667/800 DIMM max. up to 4 GB
BIOS	Award 32Mbit PnP Flash BIOS (SPI) with function of BIOS redirected to COM port
HDD Interface	2 x 2.5" SATA HDD (default) or 1 x 3.5" SATA HDD (optional)
Network Interface	The default is ten 10/100/1000Mbps Ethernet and four LAN bypass segments. More LAN ports expandability of the device by LAN modules up to 11 LAN ports in total (maximum)
SSD	1 x CompactFlash™
I/O Interface	1 x console (RJ-type), 2 x USB connector, 10 x RJ-45 connector
Watchdog Timer	255 stepping for porting
USB	2 x USB 2.0 port on front side, rest are internal pin headers
Expansion Slot	One slot for PCI-X 64-bit/133MHz and one PCI slot with 32-bit/33MHz by AX90621 module
Other Features	Reset and power on/off function onboard (pin) * Supports SPI Flash * Supports firmware upgrade functions by SMBus EEPROM * Supports RAID function
LCD Module	Yes. Programmable through RS-232 interface 4 hard keys on the front panel for users operation
Enclosure Management	Smart fan control (for fan management speed and failure alert), intrusion control for case open
Power Supply	270W ATX power supply
OS Compatibility	Redhat Linux 2.4 and 2.6 Kernel

## Features

- LGA775 socket Intel® Core™2 Duo or Core™2 Quad processor, up to FSB 1333 MHz
- Supports PCIe I/O slots for LAN modules expansion
- Supports BIOS redirected to COM port features
- Supports two SATA 2.5 HDD and RAID feature
- Smart fan and intrusion control
- Independent WDT and GPIO pins control for different LAN bypass groups
- Suitable for network appliance: VPN, network bandwidth controller, firewall and UTM

## Mechanical/ Environmental

Form Factor	1U rackmount
LED	Power, HDD, Link/Act with transfer rate
Operating Temp.	0° ~ +45°C (32°F ~ 104°F)
Storage Temp.	-20°C ~ +70°C (-4°F ~ +158°F)
Humidity	10% ~ 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 427.8 mm (16.84") (W) x 430 mm (16.92") (D)
Weight (net/gross)	9.3 kg (20.5 lb)/10.5 kg (23.15 lb)
Certification	FCC class A

## Ordering Information

### Standard

NA-821-RAGI-2527	1U extreme performance network security appliance with LGA775 socket for Intel® Core™2 Quad/Core 2 Duo CPU, 10 10/100/1000Mbps
NA-821-R4GI-RC	1U extreme performance network security appliance with LGA775 socket for Intel® Core™2 Quad/Core 2 Duo CPU, 4 10/100/1000Mbps

### Optional

CK9A103	Cable kit (P/N: 8816E821000E)
59416112100E	Cable DB9 (M) - RJ-45 L: 1.5M straight cable

\* Specifications and certifications are based on options and may vary.

\*\* Recommend ordering optional cable kit with first order.

## Packing List

1 x SATA cable
1 x power cord
1 x utility CD (user's manual and driver)
1 x RJ-45 to DB9 (F) 1.8M console cable (RC) cross cable

# NA-821

## PCIe LAN Modules for NA-821

### Configuration I

PCIe Gigabit module with up to 4 LAN ports and PCIe Gigabit module with up to 2 LAN ports, 2 LAN bypass segments.

	AX93125-4GI	AX93125-2GI
PCIe Gigabit	4	2
Ethernet Controller	Intel 82573L	Intel 82573L
Interface Type	RJ-45	RJ-45
Bypass Segment	2	0
Slot Location	Slot 1	Slot 2
PCI-X Slot	Yes, PCI-X 64-bit/133MHz	

\*Default

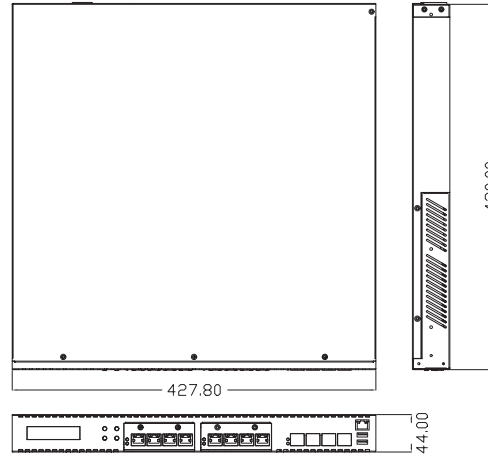
### Configuration II

PCIe Gigabit module with up to 4 LAN ports and PCIe Gigabit module with up to 3 LAN ports, 2 LAN bypass segments.

	AX93125-4GI	AX93125-3GI
PCIe Gigabit	4	3
Ethernet Controller	Intel 82573L	Intel 82573L
Interface Type	RJ-45	RJ-45
Bypass Segment	2	0
Slot Location	Slot 1	Slot 2
PCI-X Slot	N/A	

\*The configuration is upon OEM/ODM requirement.

### Dimensions

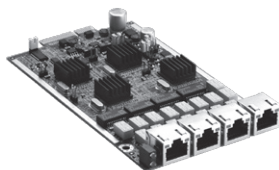
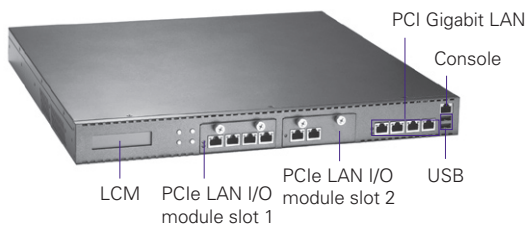


Overview

SOHO Series

SMB Series

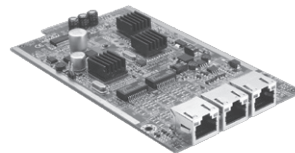
Accessories



AX93125-4GI



AX93125-2GI



AX93125-3GI