

# NA-813FL

Fanless Desktop Network Appliance  
Platform with Intel® Atom™ Processor  
N270 and 4 LANs



▲ Front view



▲ Rear view



Fanless Low Power

## Introduction

The NA-813FL is a compact fanless network hardware platform for VPN, firewall and other network security applications. It's best suited for space limited environments. The NA-813FL supports low power Intel® Atom™ processor N270 1.6 GHz with Intel® 945GSE chipset and features a 1U desktop form factor. The system supports up to a maximum of 2 GB of DDR2 400/533 memory and for storing event log data. In addition, the NA-813FL features one internal 2.5" HDD. To prevent sudden shutdown, the NA-813FL supports LAN bypass function through WDT and GPIO pin definitions. Plus, there is a MiniPCI Express slot for WiFi wireless card installation.

## Specifications

System	
CPU	Intel® Atom™ processor N270 1.6 GHz with 512K L2 cache
Chipset	Intel® 945GSE + ICH7-M
Memory	1 x SO-DIMM DDR2 400/533 max. up to 2 GB (wide temperature support is available upon request)
BIOS	AMI 8Mbit PnP Flash BIOS with function of BIOS redirected to COM port
HDD Interface	1 x 2.5" SATA HDD (wide temperature support is available upon request)
Network Interface	4 x 10/100/1000Mbps Ethernet (Intel® 82583V (default), Intel® 82574L (optional))
SSD	1 x optional DiskOnModule® (USB type) 1 x CompactFlash™ type-II (wide temperature is available upon request)
I/O Interface	1 x RS-232 DB9 connector, 2 x USB connector, 4 x RJ-45 connector, 1 x DC-in power jack
Watchdog Timer	255 stepping for porting
USB	2 x USB 2.0 port on rear side, rest are internal pin headers
Expansion Slot	PCIe Mini Card (USB transaction bus)
Other Features (optional)	LAN bypass function through WDT and GPIO pin control (one group)
Power Supply	1 x 12V, 5A power adapter
OS Compatibility	Linux Redhat Kernel 2.6

## Mechanical/ Environmental

Form Factor	1U desktop
LED	Power, HDD, Link/Act with transfer rate, LAN bypass (optional), GPIO programmable (optional)
Operating Temp.	0° ~ +40°C (32°F ~ 104°F)
Storage Temp.	-20° ~ +70°C (-4°F ~ +158°F)
Humidity	10% ~ 90% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 230 mm (9.05") (W) x 152.1 mm (5.98") (D)
Weight (net/gross)	2.5 kg (5.51 lb)/2.9 kg (6.39 lb)
Certification	FCC class B/CE class B

\* All specifications and photos are subject to change without notice.  
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## Features

- Low power and high performance Intel® Atom™ processor N270 1.6 GHz with 512K L2 cache and Intel® 945GSE chipset
- Supports 4 10/100/1000Mbps Ethernet ports (Intel® 82583V)
- Supports BIOS redirected to COM port
- Supports one 2.5" SATA HDD
- Supports fanless and noiseless operation
- Suitable for VPN, network bandwidth controller, firewall applications

Overview

SOHO Series

SMB Series

Accessories

## Ordering Information

Standard	
NA-813FL-D4GI-1.6G	Compact fanless network appliance with Intel® Atom™ processor N270 1.6 GHz and 4 10/100/1000Mbps (Intel® 82583V)

Optional	
CK9A100	Cable kit (P/N: 88080000640E)

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

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

## Packing List

1 x DC power adapter 12V/5A
1 x SATA Cable
1 x utility CD (user's manual and driver)

## Dimensions

