

# NA-320FL

Fanless Desktop Network Appliance Platform with Intel® Atom™ Processor D510 and 6 LANs



▲ Front view



▲ Rear view



Fanless Low Power

## Introduction

The NA-320FL is a compact fanless network hardware platform for VPN, Firewall, UTM and other network applications. It supports low power Intel® Atom™ processor D510 1.66 GHz with Intel® ICH8M PCH chipset and features a 1U desktop form factor. The system supports up to a maximum of 2 GB of DDR2 667 memory. In addition, the NA-320FL features one internal 2.5" HDD for storing event log. To prevent problems from sudden shutdown, the NA-320FL supports LAN bypass function through WDT and GPIO pin definitions (optional). Meantime, the Mini card is for WiFi wireless card installation.

## Specifications

System	
CPU	Intel® Atom™ processor D510 1.66 GHz with 1M/512K L2 cache
Chipset	Intel® ICH8M PCH chipset
Memory	1 x DDR2 667 (single channel) SO-DIMM max. up to 2 GB (unbuffered non-ECC) (wide temperature support is available upon request)
BIOS	AMI 16Mbit 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	6 x 10/100/1000Mbps Ethernet (Intel® 82583V (default), Intel® 82574L (optional))
SSD	1 x CompactFlash™ type II (wide temperature support is available upon request)
I/O Interface	1 x RS-232 (RJ-type connector), 2 x USB connector, 6 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 (9.00") (W) x 153.5 mm (6.04") (D)
Weight (net/gross)	2.5 kg (5.51 lb)/2.9 kg (6.39 lb)
Certification	FCC class B/CE class B

## Features

- Low power and high performance Intel® Atom™ Processor D510 1.66 GHz with 1M L2 cache and Intel® ICH8M PCH chipset
- Supports 6 10/100/1000Mbps Ethernet ports (Intel® 82583V is default)
- 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
- Supports Intel® Hyper-threading technology

## Ordering Information

### Standard

NA-320FL-D6GI-1.66G	Compact fanless network appliance with Intel® Atom™ processor D510 1.66 GHz and 6 10/100/1000Mbps (Intel® 82583V)
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### Optional

CK9A104	Cable kit (P/N: 8816E320010E)
59416112100E	Cable DB9 (M) - RJ-45, L: 1.5M straight cable

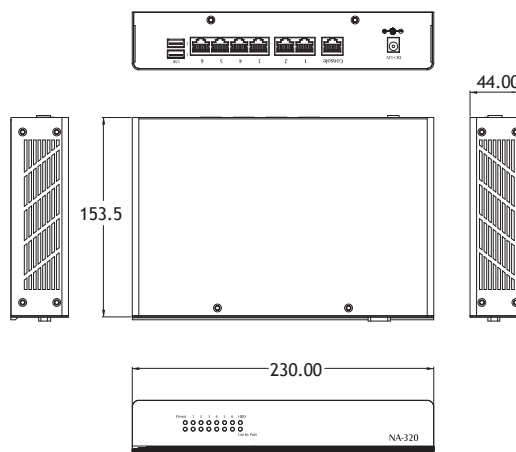
\* Specifications and certifications are based on options and may vary.

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

## Packing List

1 x DC power adapter 12V/5A
1 x SATA Cable
1 x utility CD (user's manual and driver)
1 x RJ-45 to DB9 (F) 1.8M console cable (RC) cross cable

## Dimensions



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