

GenTech Network Server - Product Manual

**The internet is complex.
This filtering device
can handle it.**



THE DEVICE

Package Contents

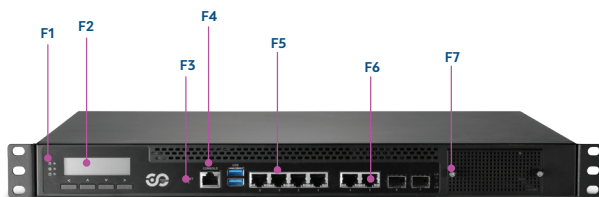
Please unpack your package carefully and inspect all the following items:

- 1- NCA-4210 Network Security Platform
- 1- Power Cable
- 1 - Short Ear Rack mount kit with screws
- 1- Console cable (Grey)

Optional: 1U slide rail kit

Note: If you should find any components missing or damaged, please contact your dealer immediately for assistance.





F1 - LED Indicators

POWER/STATUS/HDD Power: status about power supply Status; programmable status LED signals for system activities. HDD: status about storage devices, such as HDD or SSD

F2 - LCM

LCM with 4 x keypads

F3 - Console

1 x RJ 45 console port

F4 - USB

2 x USB 3.0 Type -A ports in double stacked form

F5 - LAN

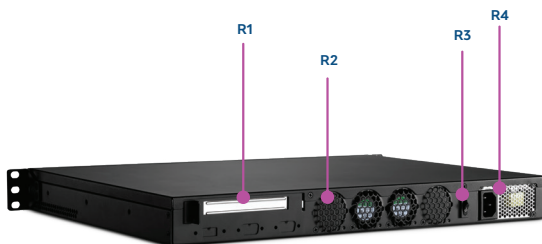
6x RJ-45 GbE ports

F6 - SFP LAN

2 x SFP LAN ports (available in model B only)

F7 - NIC

1 x NIC module space with PCIe interface



R1 - PCIe Expansion

1 x PCIe expansion slot (optional)

R2 - Fans

2 x cooling fans

R3 - Power switch

1 x power on/off switch

R4 - power jack

1 x power jack for connection with power adapter

Thank you for choosing Gentech!

The internal core of your filtering device is the 6th generation Intel® 14nm microprocessor, the new LGA 1151 socket, DDR4 memory support and the I/O boosting, comprehensive Intel® H110 and C236 series chipset, and flexible LAN configurations. The adoption of the 6th generation Intel® Core™ processor comes with the promise to enhance processor performance, while lowering the TDP. NCA-4210 supports flexible LAN configurations.

Depending on the SKUs, there are Ethernet connectivity options of 6 x RJ-45 GbE LAN + 2 x SFP GbE LAN with 2 pairs of bypass, and 6 x RJ-45 GbE LAN with 2 pairs of bypass.

Contents:

- CPU - 2x Intel(R) Pentium(R) CPU G4400
- CPU Speed - 3.30GHz
- Ram - 8GB Disk
- Hard Drive - 2x 120 GB ssd
- Operating System - Debian
- Networking - 6 Network Ports, 1GB
- Console - RJ45 Serial Port

Please refer to the following pages for a detailed description of the system's specifications.

SPECS

Processor Options

Intel Core i7-6700, i5 6500, i3 or Pentium
Series processor (codename Skylake), LGA 1151

PCH

intel H110 or C236

Socket

LGA1151

CPU TDP

Approxiameltly 65W

Super I/O

NCT 6776

BIOS

AMI SPI BIOS

- Support PXE function
- Support Console redirection
- Watchdog/ Watchdog control LAN Bypass

Function

Power off LAN Bypass function

System Memory

2x DDR4 2400 Mhz ECC/UDIMMs (Up to 16GB each)

USB

2x USB 3.0 Type-A Ports

Storage

1 x 3.5" or 2 x 2.5" HDD/SDD (the drive is not included)
1 x mSATA socket via mini PCIe interface

Networking

- LAN / Model - A: 6 x RJ-45 GbE Ethernet Ports
- Model -B: 6 x RJ-45 GbE Ethernet Ports and 2x SFP ports
- Controller / Model A : 6 x Intel i210-AT
- Model B: 6 x Intel i210 -AT + 2 x Intel i210-IS

SPECS

- Management / N/A
- NIC Module Space - 1 x Slim Type NIC module socket (PCIe Gen3 x 8 interface) supporting 1/10/40G/Fiber/Copper/Bypass
- Console / 1 x RJ-45 console port
- IPMI /OPMA socket to support IPMI
- Bypass / 2 pairs of LAN bypass on RJ-45 ports

Fan

2 x Cooling fans

Display

- LCM / 1x character type LCM
- LED / Power/Status/HDD
- Keypad / 4x Keypads

Expansion

Optional PCIe riser card for rear expansion

TPM / Optional

Thermal

CPU heatsink with fan duct

Physical Characteristics

- Form Factor / 1U Rackmount
- Housing / SPGC
- Dimensions / 438mm x 320mm x44mm (W x D x H)
- Mounting Options / Rackmount by slide rail

Environment

- Operating Temperature / 0°~40°C
- Non Operating Temperature / -40°~70°
- Ambient Humidity / 5 to 90% (non condensing)

Power

- Input / AC 90 to 264V@47 to 63 Hz
- Power Supply / 220W single PSU

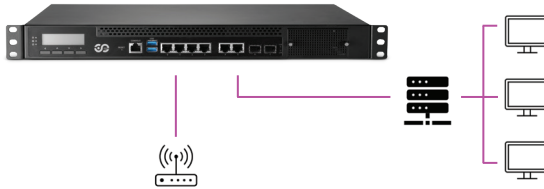
Certifications

- EMC / CE/FCC Class A/UL • Green product / RoHS

SETUP

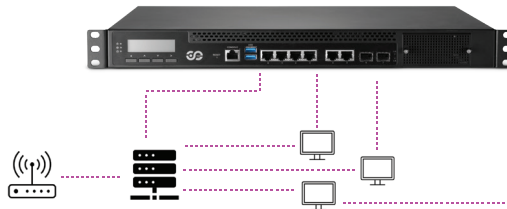
Option 1: When using Bridge Mode:

1. Plug the network cable from any of the ports to your internet switch modem
2. Set up a port forwarding for port 1443 to access the machine on port 443 as well as port 2222 to access the machine on 22
3. Make sure your Gentech technician can access the machine and ensures you that it ready for use
4. Install the gentech certificate on all your computers
5. Plug your computers or entire internet switch into the filtering box



Option 2: When using Proxy Mode:

1. Plug the network cable from any of the ports to your internet switch modem
2. Set up a port forwarding for port 1443 to access the machine on port 443 as well as port 2222 to access the machine on 22
3. Make sure your Gentech technician can access the machine and ensures you that it ready for use
4. Install the gentech certificate on all your computers
5. Set up your computers to proxy through the machine



FEATURES

Self-Contained Hardware

Livigent is a self-contained hardware appliance. The user isn't required to have a certain operating system or a certain network configuration. Livigent will work fine with any operating system that understands current widespread networking standards and protocols.

Content-Based Filtering

Instead of blocking the URL, each requested web page is analyzed according to filtering criteria in real-time. Livigent immediately delivers the results by either blocking, allowing, or coaching (warning) the content.

Image Altering

Image altering is an innovative way to treat images on allowed pages, as well as images returned by a search engine or those on adult sites with no text. The system administrator can set a custom filter, which either replaces the image or repaints the skin-colored pixels.

MIME Type Filtering

MIME type filtering filters non-text content in six main categories: documents, archives, images, audio, video, and executables (as well as custom MIME types defined by the administrator). The filter identifies the content type of the transferred files and filters them accordingly.

Protocol Filtering

Protocol filtering blocks unwanted traffic from your network and can be used to filter instant messaging applications, peer-to-peer file sharing systems, email servers, games, and networking.

Time-Controlled Filtering

Time-based settings help you increase your productivity and efficiency. Users can configure their own systems for different levels of filtering during different hours.

Smart Filter

Gentech's AI-based "Smart Filter" is customizable to meet your specific efficiency and safety requirements. Unwanted content is removed, and the re-built clean page is then loaded with even faster speeds than before.

Site Sweep

Gentech's extremely powerful site sweep filter instantaneously and automatically eliminates all unwanted ads and unnecessary content.

For technical support call 718.436.8324 or email techsupport@gentechsolution.com