

ناوک هوشمند پویان

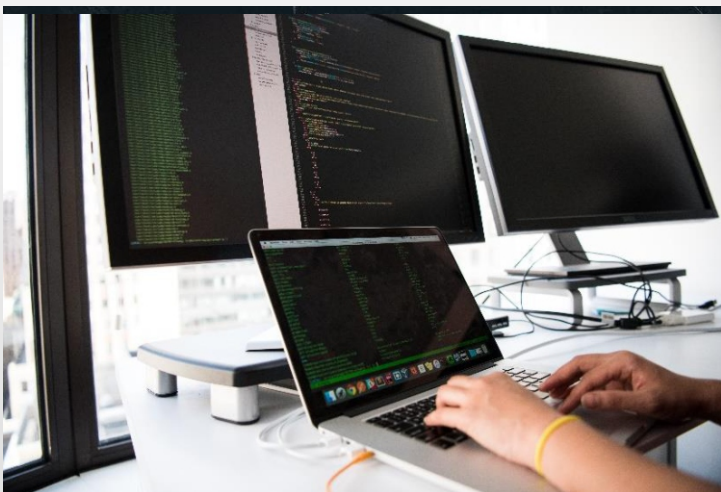
Edge Intelligent Enterprise

2024, NHP NetworkApplianceProduct Line

NHP Organization Chart



Security is Everything



IT Security

Cyber threats now comes in different form, from DoS, Phishing, Malware, SQL, and more has cause billions in damage to companies around the world



OT Security

ICS/SCADA that run today in critical infrastructure are increasingly vulnerable to cybersecurity attacks as they become more connected



NHP-N6400

Intel Pentium/ Celeron/ Atom
J/N/x 6000 CPU (Elkhart LAke)



- Intel Elkhart Lake Pentium J6426/ N6415,
- Celeron J6413/ N6211, Atom x6425E CPU
- DDR4-3200, 2*SO-DIMM, up to 32 GB
- 5*Intel GbE LAN, 1*Marvell GbE LAN, 2*3 Bypass, 2*SFP+
- 1*SATA 3.0, 1*eMMC 8/16 GB
- 1*mSATA/ M.2 (Key-M, 2242/2280, SATA SSD)
- 1*PCIe x8/ M.2 (Key-E, 2230, WIFI+BT)
- 1*M.2 (Key-B, 3042-4G, 3052-5G)
- 1*EXT-CARD Header (2*TTL + I2C + eSPI+ 2*USB 2.0)
- 4*RS232, 1*USB 3.0, 7*USB 2.0, 1*PS/2, 8*GPIO
- 1*VGA, 1*HDMI

NHP-RK3568

Desktop entry-level soft routing box
RockchipRK3568 processor 4-core processor
5 * Gigabit electrical port Support



Memory

- On-board LPDDR4 memory, default 4GB

I/O front panel interface

- 1 * status indicator light
- 4* Gigabit RJ45 electrical port

I/O rear panel interface

- 2 * USB 3.0 interface
- 1*HDMI interface
- 1*TF slot
- 1 * Reset button

Extension ports

- 1*M.2(WiFi)

storage

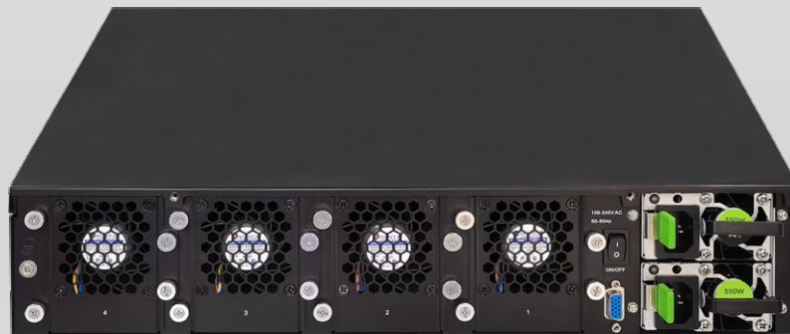
- Onboard eMMC storage, supports default 16GBupto 32G

NHP-N7147

Dual-socket 2nd Generation Intel® Xeon® Scalable Series processors

Intel® C621/C627 PCH, codename: Lewisburg

8 * Front network expansion module, the interface adopts PCIE x8 gold finger



Memory

Supports 6 channels, 20 memory slots
Support DDR4 2400/2666/2933 ECC & REG,
up to 1280GB

IO front panel interface

Support LCM module
LED indicators: power status/HDD
status/GPIO status/system fault status
Up to 4*3.5" HDD removable bay
Up to 8* front expansion network module
tray
2 * USB 2.0 interface
1*RJ45 serial port
1 * Reset button
2 * Network management interface 2 * RJ45

I/O rear panel interface

4* hot-swappable system fans
1 * Power switch
1*VGA interface

Extension ports

Removable front expansion network
module
Supports
10/100/1000/10G/25G/40G/100G/200G
rates
Supports 1/2/4/8 interface quantity,
supports optical/electrical interface

storage

1*2.5" hot-swappable hard drive 1*M.2 2280

power supply

550W/800W 1+1 CRPS redundant power
supply

Product Size

• Chassis size (depth * width * height):
626mm * 443mm * 88mm

weight

Net weight: 16.4kg including packaging:
25kg

environment

Working temperature: 0°C~40°C Storage
temperature: -20°C~75°C Relative humidity:
10%~90% noncondensing

Certification Comply with CCC





NHP-NA191

Features

- 10th/11th generation Intel® Core TM series processors, codename: Comet Lake-S
 - Supports 2 channels, 4 memory slots
 - DDR4 3200 ECC & Non-ECC UDIMM memory, supports up to 128GB
 - 8 * electrical port + 8 * optical port
 - CRPS power supply, supports power status monitoring
 - Supports 6 * network modules, or 2 * network modules + 4 * hard disk.
- Supports HDMI interface



- 10th/11th Generation Intel® CoreTMseries processors
- Intel® W480E PCH
- 6 * Front network expansion module, the interface adopts PCIE x8 gold finger

Memory

- Supports 2 channels, 4 memory slots
- DDR4 3200 ECC & Non-ECC UDIMM memory, supports up to 128GB

I/O front panel interface

- LED indicators: power status/HDD status/GPIO status/BYPASS status
- 8 * RJ45, supports 3 groups of Bypass
- 8*SFP
- 6 * front expansion network modules
- 2 * USB 2.0 interface
- 1*RJ45 serial port

Extension ports

Removable front expansion network module

- Supports 10/100/1000/10G/25G/40G/100G/200G rates
- Supports 1/2/4/8 interface quantity, supports optical/electrical interface
- Supports Bypass function ** Please refer to the network module information **
- 1* Internal PCIE x8 slot
- 1*Mini PCIE slot

Storage

- 1 * CF/mSATA (choose one) • 4 * SATA power input
- 350W 1+ 1 CRPS redundant power supply

Product Size

- Chassis size (depth * width * height): 500mm * 435mm * 88mm

Weight

- Net weight: 13Kg Including packaging: 16Kg

Condensing
Certification

NHP-N5190

Features

- 10th/11th generation Intel® Core TM series processors, codename: Comet Lake-S
 - Supports 2 channels, 4 memory slots
 - DDR4 3200 ECC & Non-ECC UDIMM memory, supports up to 128GB
 - CRPS power supply, supports power status monitoring
 - Optional TPM 1.2/2.0 module
 - Supports 8 * network modules, or 4 * network modules + 4 * hard disk.
- Supports HDMI interface



- 10th/11th Generation Intel® CoreTM series processors
- Intel® W480E PCH
- 8 * Front network expansion module, the interface adopts PCIe x8 gold finger Memory
- Supports 2 channels, 4 memory slots
- DDR4 3200 ECC & Non-ECC UDIMM memory, supports up to 128GB
- I/O front panel interface
- Support LCM module
 - LED indicators: power status/HDD status/GPIO status/system fault status
- Up to 4*3.5" HDD removable bay
- Up to 8* front expansion network module tray
- 1 * USB 2.0/USB3.0 interface
- 1*RJ45 serial port
- 2 * Network management interface 2 * RJ45
- I/O rear panel connector
- 3* system fans
- 1 * Power switch
- 1 * HDMI interface (optional)

Extension ports

Removable front expansion network module

- Supports 10/100/1000/10G/25G/40G/100G/200G rates
- Supports 1/2/4/8 interface quantity, supports optical/electrical interface
- Supports Bypass function ** Please refer to the network module information **
- 1* Internal PCIe x8 slot
- 1*Mini PCIe slot
- **Storage**
 - 1 * CF/mSATA (choose one) • 4 * SATA
- power input
- 350W 1+ 1 CRPS redundant power supply

Product Size

- Chassis size (depth * width * height): 500mm * 435mm * 88mm

Weight

- Net weight: 13Kg Including packaging: 16Kg

Environment

- Working temperature: 0°C~40°C
- Storage temperature: -20°C~75°C

NHP-N1171

Features

- Intel Atom® P5000/C5000, codename: Snow Ridge/Parker Ridge
- Supports 2 channels, 2 memory slots
- DDR4 2933 UDIMM, up to 64GB
- Supports onboard 6*Gigabit electrical ports, 2 pairs of BYPASS
- Supports onboard 4 * Gigabit optical ports/10G optical ports/25G optical ports available
- 2 * M.2 slots, optional support for 5G/WiFi6/AI module



Memory

- Supports 2 channels, 2 memory slots
- DDR4 2933 UDIMM, up to 64GB I/O front

panel interface

- LED indicators: power status/HDD status/GPIO status/BYPASS status
- 6 * RJ45, supports 2 groups of Bypass
- 4*SFP/SFP+/SFP28
- 2 * front expansion network

module

- 2 * USB 2.0 interface
- 1*RJ45 serial port
- 1 * LCM (optional)
- 2* SIM card slots

I/O rear panel connector Power switch

Extension ports

- 1* Internal PCIE x8 slot
- 1*Mini PCIE slot

Storage

- 32GB eMMC
- 1*M.2 M-key, can be used for SSD
- 2*SATA III

Power input

120W power adapter

Product Size

Chassis size (depth * width * height):
200mm * 300mm * 44mm

Environment

Working temperature: 0°C~40°C Storage temperature: -20°C~75°C Relative humidity: 10%~90% noncondensing

Certification Comply with CCC

NHP-C100

Features

- Intel Atom® C1000 Processor

Support dual 5G/LTE/NVMe/AI module external adapter Onboard memory particles

- Support LPDDR5 5200 MT/s memory, 4GB/8GB UFS/NVMe
- Onboard 4*2.5GbE RJ45 + 1 set Bypass
- Onboard PCIe 4.0 x4 slot
- Onboard 2*M.2 slots

motherboard

- nb100
- Latest generation Intel Atom® C1000 processor

-C1100 2C/2.1G/10W

-C1110 4C/2.1G/13W

-C1120 8C/2.5G/32W Memory

Onboard memory particles

- Support LPDDR5 5200 MT/s memory, 4GB/8GB

I/O front panel interface

- LED indicators: power status/HDD status/GPIO status/BYPASS status

- 2 * SIM card slots
- 2*USB3.1

I/O rear panel connector

- DC-IN power connector
- 4*RJ45 2.5GbE
- 1*USB3.1
- 1*HDMI interface
- 1 * Reset switch
- 1*RJ45 serial port Extension ports
- 1*PCIe 4.0 x4 slot
- 2 * M.2 slots

Storage

- Onboard 64/128GB UFS2.5 1 * M.2 M-key

Power input

40/60W power adapter

Product Size

Chassis size (depth * width * height):
185mm * 150mm * 40mm

Weight

Net weight: 0.8kg including packaging:
1.2kg

Environment

Working temperature: 0°C~40°C Storage temperature: -20°C~75°C Relative humidity: 10%~90% noncondensing

Certification Comply with CCC



NHP-N3720-5CB

Features

- Marvell 88F3720
- Onboard DDR4 1600 memory, 2GB
- Support onboard 5 * Gigabit electrical port + 1 * Combo



Memory

- Onboard DDR4 1600 memory, 2GB I/O
- front panel connector
- LED indicators: power status/HDD status/GPIO status/BYPASS status I/O rear

panel connector

- 5*GE RJ45
- 1*Combo
- 1 * USB 2.0 interface
- 1*RJ45 serial port
- DC-IN power input Extension ports
- 1 * SIM card slot
- 1*Mini PCIE
- 1*M.2

Storage

- Onboard eMMC, 8GB

Power input

12V DC-IN interface

Product Size

Chassis size (depth * width * height):
180mm * 240mm * 28mm

Weight

Net weight: 1kg
• Including packaging: 1.5kg

Environment

- Working temperature: 0-40

Storage temperature: -40 70 • Relative humidity: 0~95% noncondensing

Certification Comply with CCC

NHP-N9130B

Features

- MARVELL CN9130 processor, 4 cores, 2.0GH
- Supports DDR4 SO-DIMM 2666 ECC/non-ECC memory, 8GB
- Onboard 8 * Gigabit electrical ports + 2 * Gigabit optical ports + 2 * Wanguangoptical ports
- Supports 1 * front expansion network module
- Single power/redundant power, optional



Memory

- 1 * DDR4 2666 SO-DIMM memory, supports ECC/non-ECC, 8GB

I/O front panel interface

- LED indicators: power status/HDD status/GPIO status/BYPASS status
- 2 * USB 2.0 interface
- 8*GE RJ45
- 2*SFP
- 2*SFP+
- 1*RJ45 serial port
- 1 * LCM (optional)
- 1 * Front network expansion module, the interface adopts PCIE x8 gold finger

I/O rear panel interface

- 1 * AC power input
- 1 * system fan
- 1 * Power switch Extension ports
- 1*Mini PCIE
- 1*M.2
- 1 * PCIe 3.0 x8 slot (front expansion network module)

Storage

8GB eMMC 1*mSATA • 1*SATA

Power input

- 40/60W single/redundant power supply

Product Size

Chassis size (depth * width * height):
450mm * 435mm * 44.5mm

Weight

Net weight: 5kg
Including packaging: 8kg

Environment

- Working temperature: 0°C~40°C
- Storage temperature: -20°C~75°C
- Relative humidity: 10%~90% non-condensing

Certification

Comply with CCC

1G NETWORK MODULE

Features

- Intel®i350-AM4 LAN Controller
- Support 4~8GbE RJ45 electrical port/SFP optical port
 - Support optical port and electrical port bypass function, up to 4 pairs
 - Support Gen3 PCIe switching, uplink supports PCIe x1/x2/x4/x8

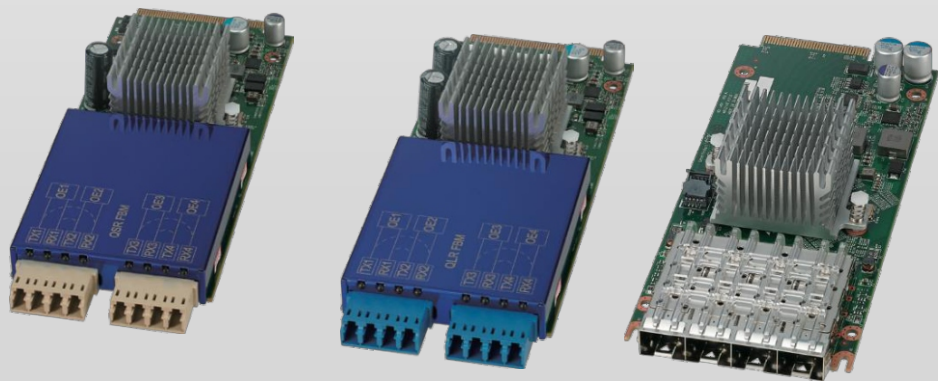


型号	网卡芯片	PCIe交换	Bypass	网速	接口类型	I/O接口
NI 184C	i350AM 4x2	-	4	1G	电口	8 RJ45
NI 180C	i350AM 4x2	-	0	1G	电口	8 RJ45
NI 142C	i350AM 4x1	-	2	1G	电口	4 RJ45
NI 140C	i350AM 4x1	-	0	1G	电口	4 RJ45
NI 180F	i350AM 4x2	-	0	1G	光口	8 SFP
NI 140F	i350AM 4x1	-	0	1G	光口	4 SFP
NI 142F	i350AM 4x1	-	2	1G	光口	4 SFP
NI 121F	i350AM 4x1	-	1	1G	光口	2 SFP
LAI8045	i350 * 2	Gen3	4	1G	电口	8 RJ45
LAI8005	i350 * 2	Gen3	0	1G	电口	8 RJ45
LAI4425	i350 * 2	Gen3	2	1G	电口/光口	4 RJ45+ 4 SFP
LAI4405	i350 * 2	Gen3	0	1G	电口/光口	4 RJ45+ 4 SFP
LAI0805	i350 * 2	Gen3	0	1G	光口	8 SFP

10G NETWORK MODULE

Features

- Intel® XL710 LAN Controller
- Support up to 40G bESFP+ optical port interface
 - Supports 2 pairs of bypass functions

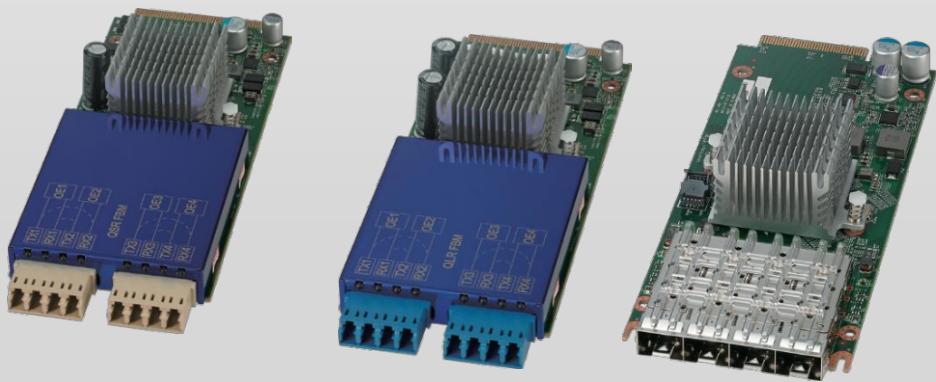


型号	网卡芯片	Bypass	网速	接口类型	I/O接口
NHP 142F	XL710-BM 1	2	10G	多模光口	4 SFP+
NHP 142F-LR	XL710-BM 1	2	10G	单模光口	4 SFP+
NHP 140F	XL710-BM 1	0	10G	光口	4 SFP+
NHP 120F	X710-BM 2	0	10G	光口	2 SFP+

10G NETWORK MODULE

Features

- Intel® XL710 LAN Controller
- Support up to 40G bESFP+ optical port interface
 - Supports 2 pairs of bypass functions



型号	网卡芯片	Bypass	网速	接口类型	I/O接口
NHP 142F	XL710-BM 1	2	10G	多模光口	4 SFP+
NHP 142F-LR	XL710-BM 1	2	10G	单模光口	4 SFP+
NHP 140F	XL710-BM 1	0	10G	光口	4 SFP+
NHP 120F	X710-BM 2	0	10G	光口	2 SFP+



ناوک هوشمند پویان

Edge Intelligent Enterprise