2013
Network and Communication Solutions

- Telecom Carrier Platform
- Performance Platform
- Mainstream Platform
- Entry Platform
- Desktop Platform
- Industrial-grade Platform

www.nexcom.com

NCS

Network and Communication Solutions

Telecom Carrier Platform

Performance Platform

Mainstream Platform

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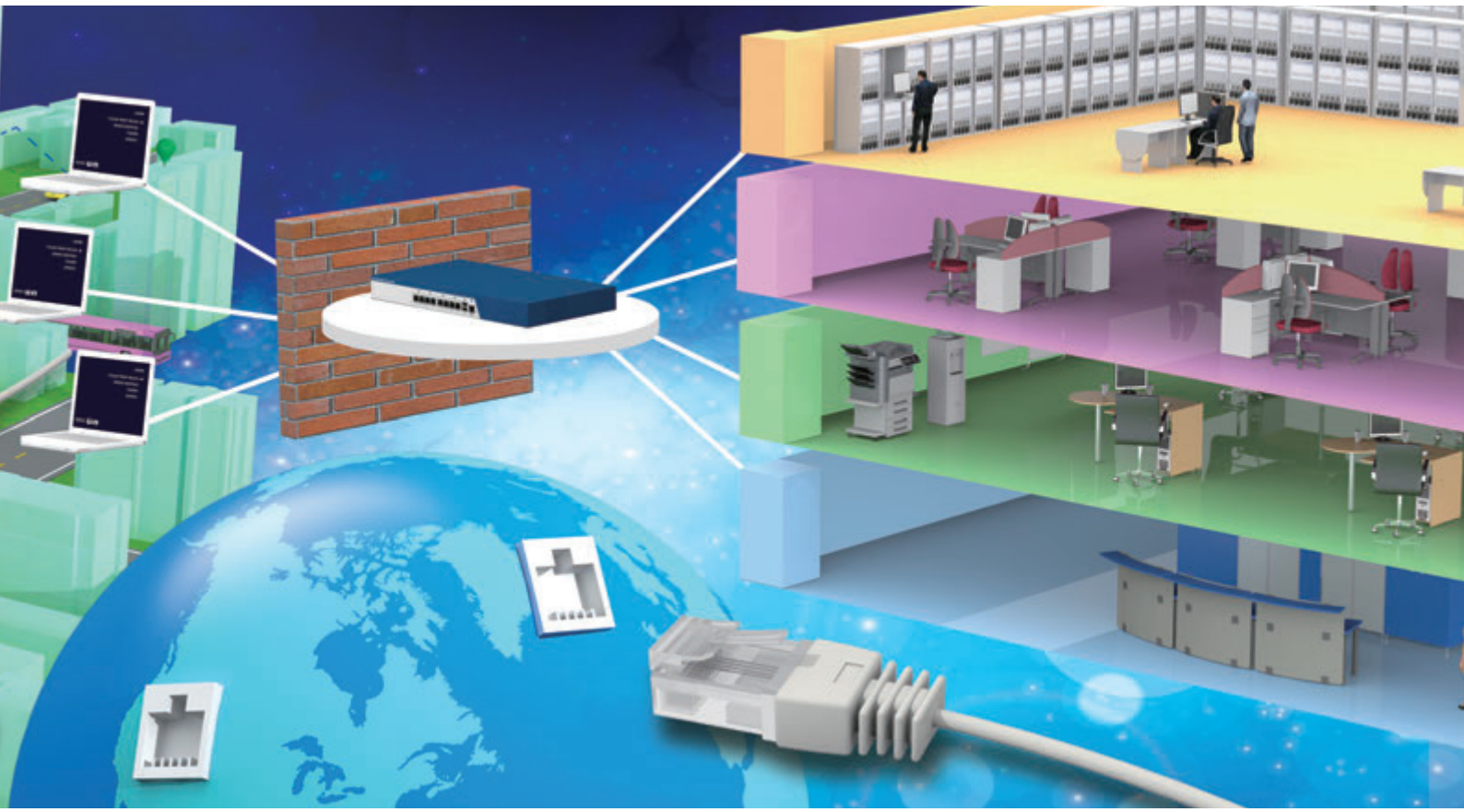
Desktop Platform

Industrial Grade Platform



Desktop Platform

Industrial-grade Platform

About NEXCOM

Reliable Partner for Building the Digital Infrastructure

Founded in 1992 and headquartered in Taipei, Taiwan, NEXCOM is committed to being your trustworthy partner in building the digital infrastructure. To surpass customers' expectations, NEXCOM makes the difference by utilizing its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. With these core strengths, NEXCOM has enabled its customers to win key projects in a diverse range of industries.

With its focus on delivering these core values to better serve customers, NEXCOM integrates its capabilities and operates four global businesses, which are Multi-Media Solutions (MMS), Mobile Computing Solutions (MCS), Industrial Computing Solutions (ICS), Network and Communication Solutions (NCS), and Intelligent Digital Security (IDS). This strategic deployment enables NEXCOM to offer time-to-market, time-to-solution products and service without compromising cost.

In addition, the service-to-market business model gives NEXCOM core competence to build a strong world-class service network by providing customized service, global logistics, local access, and real-time support. Operating seven subsidiaries, from China, France, Germany, Italy, Japan, the United States, to the United Kingdom, NEXCOM is able to better facilitate customers' requirements as well as closely work with global partners in different regions.

Partners should also be assured that NEXCOM's Taiwan based Headquarters and subsidiary offices in China, UK and USA have obtained ISO 9001:2008 Certification.

ICS	EmbeddedPro Solutions: Embedded Computer, Single Board Computer, Computer-on-Module Panel PC: Industrial PPC, Applied PPC, Multimedia PPC, Factory PPC, Medical PPC, Industrial PPC, In-Wall PPC Industrial Fanless Controller (NISE) Point of Services Industrial Wireless Machine Automation (MA) Factory Automation (FA)
IDS	Intelligent Digital Security: IP Cam, NVR, Mobile Server Platform
MCS	Mobile Computing Solutions: Rugged Computer Devices, Rugged Mobile Computer Vehicle Telematics Computer: Car PC, Train PC
MMS	Multimedia Solutions: Digital Signage
NCS	Network and Communication Solutions: Network Security, VoIP, HPC, Telecommunication, Storage, Industrial Firewall

Corporate Mission

- An Innovative Supplier in Vertical Application Markets
- A Quality Partner in Engineering, Manufacturing, and Services

Corporate Vision

To become the industrial leader in building the digital infrastructure, NEXCOM utilizes its industry leading technology, localized customer support and worldwide logistics services. This will be achieved by

- Great Team Work
- Cooperation with trusted partners
- Growth through innovation.

Business Strategy

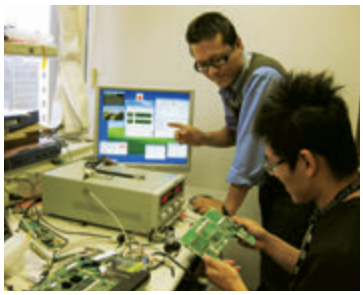
Aim to better support the activities of all its partners, NEXCOM divides its sales force into four dedicated business units to target rapidly expanding vertical markets. This enhances each business unit concentrating on strategic channel accounts and on repeat order business. Moreover, NEXCOM's business units have been set up to serve the requirements of key project accounts, where product ODM and project support are frequently required.

NEXCOM is working with embedded computing solution providers to envision new opportunities for growth. We'll help you deliver reliable vertical industry platform (VIP) solutions, optimized for the next wave of low power, small footprint embedded applications.

Research and Development

Speed, Quality, Innovation and One-stop Service

Over a decade ago, NEXCOM successfully launched the PEAK series of Single Board Computers onto the IPC market, and in doing so, gained a solid reputation for product quality and innovation. In subsequent years, NEXCOM has enhanced its reputation for R&D excellence with a multitude of high-end technology products, which has cemented NEXCOM as one of the industry leaders for R&D and innovation.



The mission of NEXCOM R&D team is to design exceptional products that meet the stringent requirements of today's global markets. In order to achieve this goal, we have recruited hundreds of talented engineers who have the knowledge and expertise to make NEXCOM's products stand out in this highly competitive market.

In 2012, NEXCOM R&D will develop solutions within the following categories, fanless computers, Panel PCs, video analytic, self-service platform, vehicle telematics computers, rugged mobile tablet computers, digital signage platform solutions, and ATCA platforms for telecommunications. The team is encouraged to "Think with New Ideas" and "Know how to make it and do it right first time". In addition, the size of NEXCOM's R&D team has been expanded to over 130 members and remains as one of core competences of the company.

Versatile Design Capabilities

- Leading industrial fanless computer
- High availability network security platform, blade, and cPCI
- Rugged tablet computer and car PC
- Ultra small footprint computer-on-module
- High speed networking
- Isolated and non-isolated power system
- Isolated and non-isolated industrial I/O
- Wide range of operating temperature

24/7 Production Line

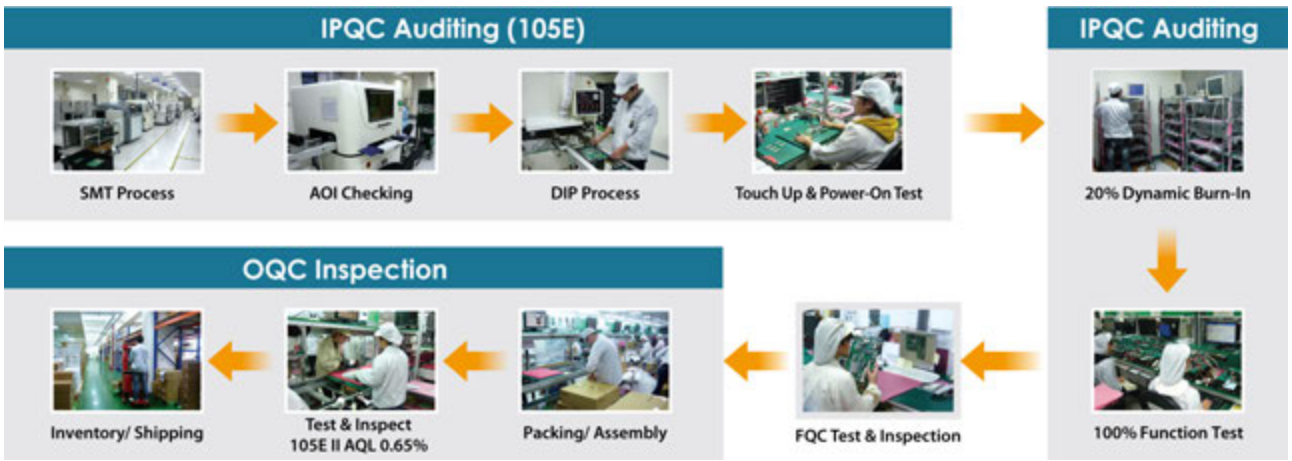
Optimal Manufacturing Efficiency

The manufacturing of delicate products requires a high-level technology, craftsmanship, standards and time-to-market efficiency. Over years continual investment in advanced manufacturing equipment and systemic training programs has enabled NEXCOM to obtain optimal manufacturing efficiency.

To fulfill the increasing market demand for NEXCOM's products, the company has opened a 24/7 production line. This investment not only furthers the quality of products, but also reduces production lead-time for all global customers.

Quality Assurance

Under a strict Quality Assurance System, product design and reliability are controlled to support all critical solutions, and ensure Total Quality Assurance (TQA) implementation for all NEXCOM products and service. Furthermore, NEXCOM technical support team aims to provide feedback within 24 hours to ensure technical issues are resolved in the shortest possible time.



Closed-Loop Quality Assurance System

Green Policy

As a global citizen, NEXCOM is committed to providing green products and services, which are compliant with WEEE and RoHS legislation. NEXCOM continues to proactively work with industry peers and suppliers, to clarify standards, and identify compatible technologies and practices that help reduce hazardous substances from our products and manufacturing processes.

Global Fulfillment Service

Product delivery and customer support are always more effective when delivered locally. NEXCOM localizes support and provides a global customer service network to handle all aspects of global business, from presales, order taking, and system assembly to logistics. For expeditious product delivery, NEXCOM has established four regional service centers: Taiwan (for Asia), USA (for North America and South America), the United Kingdom (for Europe) and China. Therefore, NEXCOM customers benefit from quality assured product assembly and four service centers.

NEXCOM has invested heavily to establish operational infrastructures, including advanced equipment and facilities, not only at its global headquarters but also at subsidiary offices. Today, each of our service centers, with ISO 9001:2008 certification, has a purpose built assembly line, RMA/ DOA center and warehouse storage capability.

NEXCOM Global Service Network

Assembly Line Operation

NEXCOM offers custom-built products based on customers' specific requirements through the build-to-order services. A dedicated 24/7 assembly line and Quality Assurance System are installed in the services center to ensure exceptional production efficiency and superb product performance and reliability.

Service Pledge and Connection

As a reliable industrial computing platform provider for vertical markets, NEXCOM provides the very best products and the most expeditious service to help customers build the digital infrastructure. Comprehensive types of service are provided to promptly satisfy varying requirements. In addition to the headquarters in Taiwan, seven subsidiaries and distributors in strategic worldwide locations are at your service.

Service Types

- Quotation
- Project Consultant
- Technical Support
- Solution Alliance
- RMA/DOA
- Assembly/ Test
- Global Logistics
- Customization
- ODM Original Design Manufacturing

Your Truly Global Information Resource

www.nexcom.com

www.nexcom.com is your one-stop platform for the latest information on all NEXCOM products and services. The rejuvenated website not only contains product relevant information and data, solutions/ products demo, up-to-date news, but incorporates online downloads, publications, and technical service supports, such as RMA/ DOA centre. Furthermore to localize service and support, seven NEXCOM sister websites remain to serve visitors in diverse geographical regions.

Get the Latest Updates Anytime, Anywhere

m.nexcom.com

At the end of the year 2011, NEXCOM launches its mobile site, m.nexcom.com. The site aims to cross time and space boundaries by allowing users to access the latest innovation and information of NEXCOM via smartphones. On this website, users will easily find our latest products, news, application stories, white papers, and videos. The mobile site now supports iOS and Android system. Please visit us at m.nexcom.com.

Design and Manufacturing Services (DMS)

Customized Service for Tailor-Made Solutions

NEXCOM provides cost-effective and time-to-market Design and Manufacturing Services (DMS). The DMS offers product customization from core modular designs to finished products based on customers' specifications in all kinds of industrial field. The levels of the service include manufacturing new CPU boards and system based products to fulfill customers' unique applications.

Unique DMS Features

With vast experience, the know-how, leading technology and innovative design capabilities, NEXCOM DMS incorporates the following features:

Prompt Time-to-Market

NEXCOM posses a dedicated project management team to monitor and ensure each DMS project is delivered on schedule. Thus, a quick time-to-market solution can be offered with time-scales varying from one-three months for the design phase, with an average six month period from design to market.

Flexible Design and Manufacturing

NEXCOM posses a complete R&D team to design and engineer the latest industrial grade products. As R&D engineers grouped into small cross-functional teams, they can develop more reliable products with flexible designs and quicker response to customers' requirements. In addition to our R&D capabilities, the state of art manufacturing facility and production lines enables NEXCOM to offer a flexible manufacturing with highly skilled factory staff.

Rigid Quality Control

NEXCOM is pledged to deliver high quality products, from design to manufacture, and safeguard against defective products by implementing a rigid Quality Assurance System. In this system, at the end of each process, NEXCOM performs various tests to ensure that the product passes the industrial standard before it enters into next stage. Finally, additional tests are performed to ensure all board and system level products function correctly. Tests include "Failure Mode and Effects Analysis", "Vibration test", "Burn-in Chambers", "Drop test", and "AC power source test".

Extensive DMS Experience

We set higher standards! NEXCOM surpasses your tailor-made product requirements with extensive DMS experiences. We are specialized in X86 architecture and have accumulated invaluable experience and know-how in real working environments. Moreover, with a superb reputation, NEXCOM has under its belt many ODM projects in diverse fields, such as gaming, medical, POS, network security, transportation, marine, blade servers, and Linux BIOS etc.

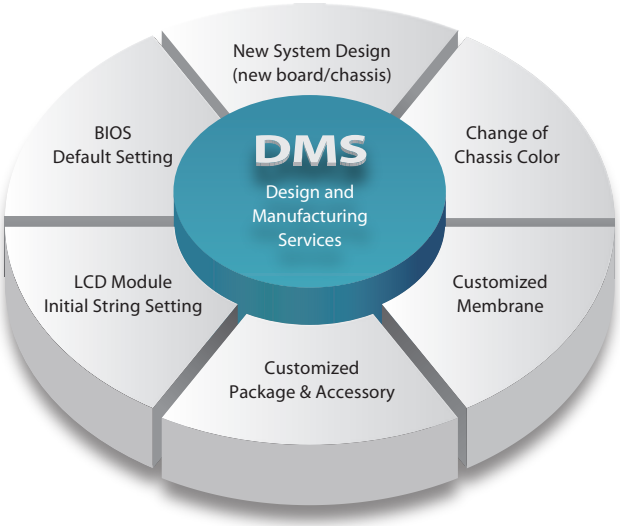
Scope of DMS Work

Original Design Manufacturing Service (ODMS)

NEXCOM offers a complete ODM Service starting from the brand new product design right through to the finished product. We can design products based on the customer's unique specifications and application requirements.

Customization to Order Service (CTOS)

NEXCOM also provides CTOS, which is a quick-to-market solution by modifying the existing products to fit your business requirements, such as BIOS setting, component change by using current PCM layout, chassis color change, and packing accessories etc.



Service of DMS

With decades of industrial computing experience, NEXCOM has the capability to provide different levels of customized service to manufacture innovative products with exceptional high quality. We can assist you to differentiate from competitors, and save significant time and efforts.

Level 1	Logo Re-brand	We provide the service to change the membrane to re-brand the company logo on the front panel. Customers need to provide Membrane drawing with all color pantone number. There is a service charge involved.
Level 2	Customerized Build	Customers can change the membrane and chassis color to re-brand the packing. NEXCOM can offer dedicated part numbers and BOM. MOQ and service charge are required.
Level 3	Manufacturing Service	Contract manufacturing. The service scope includes system assembly & burn-in, software loading & testing. MOQ and manufacturing service charge are required.
Level 4	New Project	The design of new board & system is available. NRE and quantity commitment are required.

Professional Conformal Coating Solution

Get Ruggedized with NEXCOM Cost-Effective Conformal Coating Service for Hash Environment Protection

Prompt Time-to-Market

NEXCOM recognizes the harsh reality that many embedded systems find themselves operating in unusual hostile environments. When conformal coating is required to protect your application against substantial humidity, dust, chemicals or temperature extremes, we can help!

Cost Effective Service to Apply Coating Solution in Vertical Market Segments

In addition to the usual military and harsh industrial environments that demand conformal coating, NEXCOM expand our conformal coating to Vehicle Telematic Computing, outdoor traffic control/surveillance, and off-shore Marine applications. These applications demand embedded computing performance with increased reliability through conformal coating process.

To support a wide range of applications in vertical markets, NEXCOM has engineered a diverse range of platforms, which incorporate the latest.

"State of the Art" Conformal Coating Line

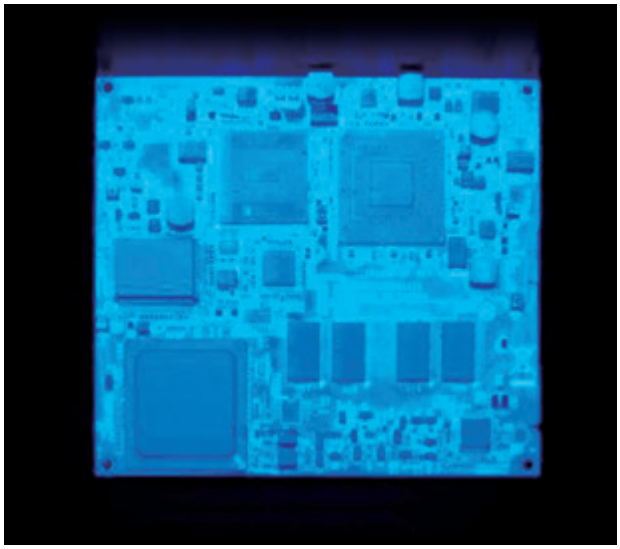
NEXCOM uses automated Conformal Coater equipment for applications that require a high level of accuracy and repeatability in moderate to high volume manufacturing environments. "State of the Art"coating line is a closed-loop robotic platform featuring optical encoder feedback on all axes.

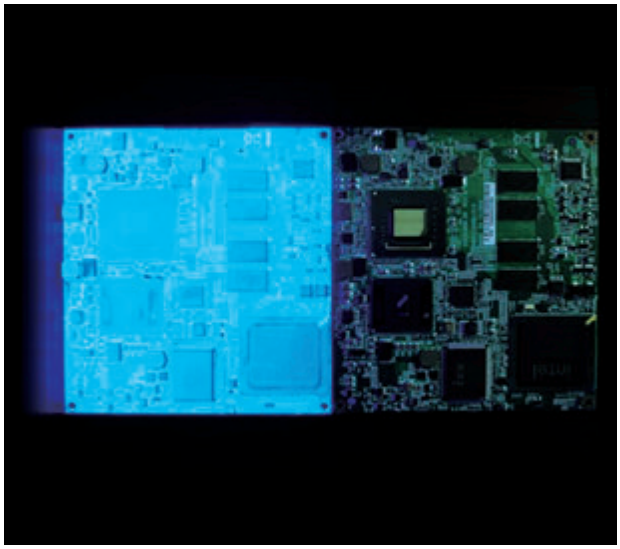
Smart Masking Technology

Our smart masking technology can pin point specific area on the PCBA for coating. The green, programmable conformal coater equipment allow user to only coat the area selected, which save labor/ material costs.

De-Flux Cleaning

To prepare a PCB for conformal coating, the circuits need to be cleaned. NEXCOM uses automatic defluxing and cleanliness testing systems. The deflux system is equipped with an automatic chemical management system that automatically doses and mixes defluxing chemicals at the turn of a keyed switch.





Real Time Cleanliness Testing

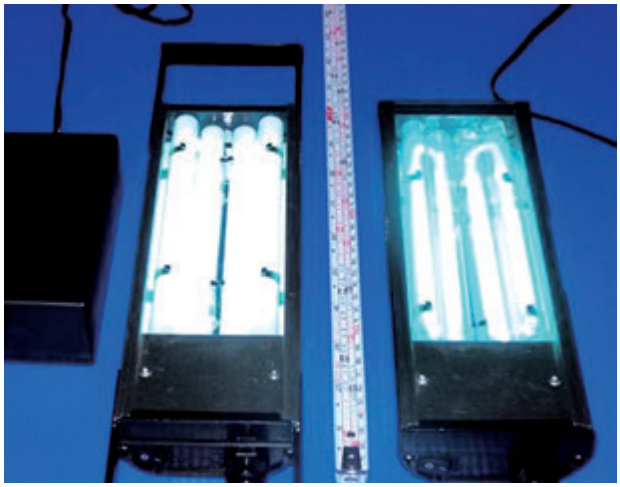
NEXCOM's deflux cleaning system is also equipped with an onboard cleanliness testing system which allows a user to program a desired cleanliness level. This assures that cleanliness levels will be consistent batch after batch.

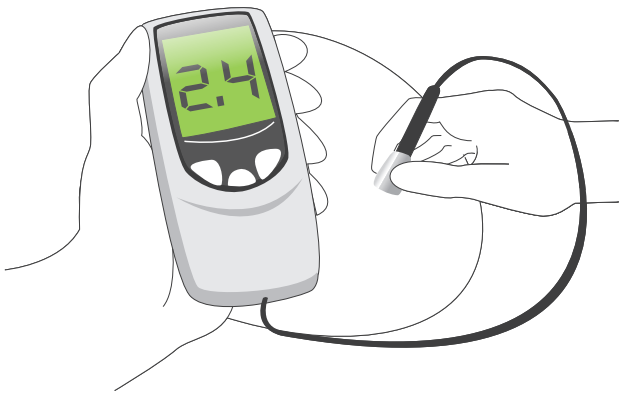
De-Coating RMA Service

NEXCOM offer De-Coating RMA service upon request. This new service allows you to further cost down and generate higher ROI.

Quality Assurance Policy and Consistency Guarantee

Conformal coating inspection is a critical factor in determining successful coating application and long term reliability of PCBs. Using the IPC standards allows the coating operator to monitor the coating application performance. NEXCOM offers 100% manual screening by examining the PCB under white and UVA light and Thickness Gauge.





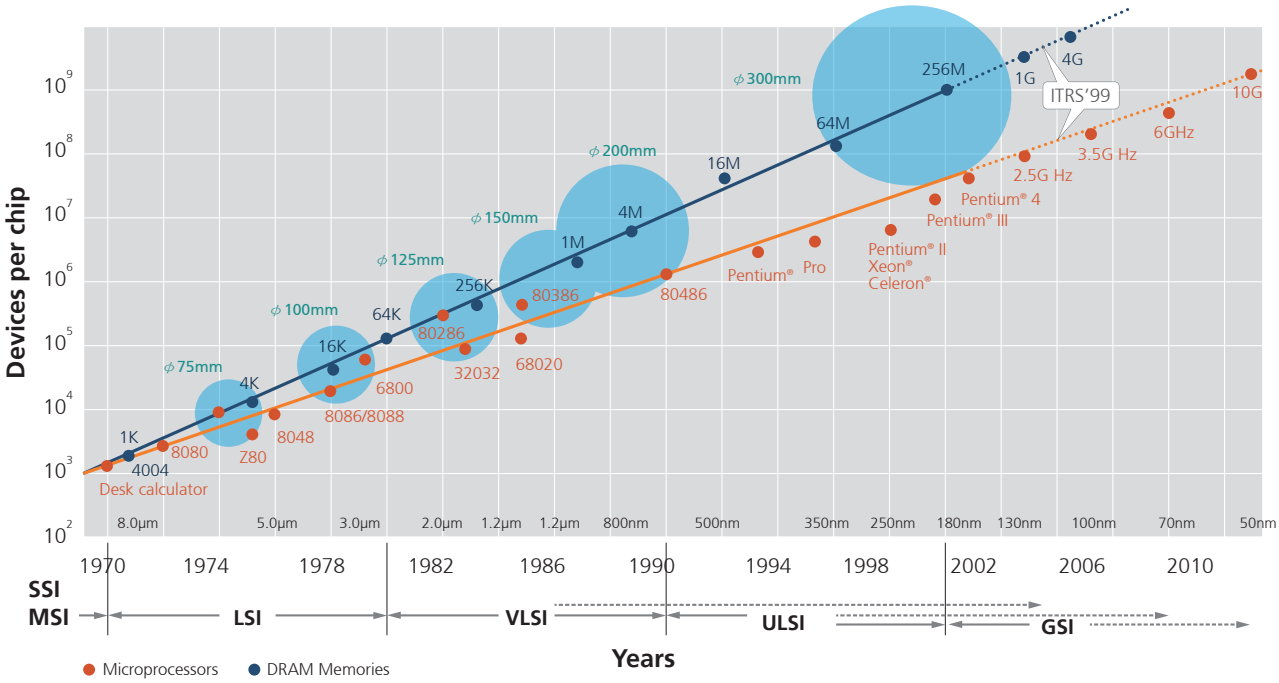
NEXCOM follows IPC-A 610, IPC-CC-830, IPC J-STD-001E regulations to generate consistent, adjustable coating thickness and cleanliness.

The Rise of SoC Technology

SoC is a concept that appeared in the early 1990s. SoC stands for system-on-chip, the packaging of all the necessary electronic circuits and parts for a "complete system" on a single integrated circuit. It includes on-chip memory (RAM and ROM), one or more microprocessors, DSP, peripheral interfaces, I/O logic control, data converters, and other components that comprise a complete computer system. With the technology enhancement of foundry, from the SSI, MSI, LSI, VLSI, to 025 µm, 0.18 µm, 0.13 µm process, the logic gate count may be larger than 100 millions today. We can integrate more mature and reusable IP, like digital circuit, analog circuit, digital-analog mixed-signal circuit, and on-chip programmable logic into one SoC. The trend of SoC technology is to integrate MEMS, and SiP cores together to meet the complex single chip requirments.

The advantages of SoC are compact and simple system design, lighter weight, high performance with lower power consumption, multiple functions and cost-competitive. SoC are widely adopted in computers, communications, consumer, industrial, transportation, and other products. According to the forecast, the CAGR of SoC sales is expected to grow by more than 20% still in the coming 5 years.

The SoC industry has developed rapidly over the last 20 years from producing VLSI devices that integrated a processor and a few memory and peripheral components onto a single chip to today's high-performance SoCs that incorporate hundreds of IP blocks. This progress is a consequence of Moore's Law:
"The performance of an IC, including the number components on it, doubles every 18-24 months with the same chip price ..." - Gordon Moore – 1960



The SoC is usually divided into three categories according to the implementation technology adopted: CSoC (Configurable SoC), SoPC (System-on-a-Programmable-Chip), and ASIC SoC for final mass-production.

It is a trend to integrate multiple processor IP in recent SoC design. It increases the complexity of system verification, especially when multiple software running on the processors concurrently. To build prototype on the FPGA prototype is widely adopted to verify these IP. Many IC vendors have provided well-integrated SoPC (FPGA, EPGA), which includes processor, memory, bus logic, IO logic, and programmable logic. The Engineer can therefore verify high level software application on such platform. This solution can reduce the risk of new SoC development, offer high flexibility, and shorten the development cycle.

The SoC may adopt any kind of instruction set, Intel X86 core (e.g. NS SC2200, SiS550), MIPS core (e.g. AMD AU1500), PowerPC core (e.g. IBM PPC405), ARM 7/9/11 cores, or new ARM Cortex-M/A series.

In addition to the reusable IP modules, the most important feature of SoC is its bus architecture for the inter-connection between IP modules.

Each vendor adopt their own bus architectures, such as the AMBA bus (ARM), AXI bus (AMBA extension), EC bus (MIPS), CoreFram bus (MIPS), CoreConnect bus (IBM), Wishbone bus (Silicore). It is almost impossible to interconnect IP cores based on different bus architecture. Today, some companies devote efforts to establish a common on-chip bus architecture VSIA (Virtual Socket Interface Association). It needs an efficient routing algorithm as basis.

Demands of SoC in Intelligent Industrial Control

Some demands make the SoC widely adopted in the industrial control,

1. Higher computing power: the SOA (Service Oriented Architecture) is widely adopted. Comparing to the traditional server/client architecture, the thin device needs higher computing power.
2. Wireless communication: because ubiquitous WIFI network, GSM network, the cloud computing becomes necessary. We need a system integrating network connection capability, security protection. The SoC is the better choice.
3. Compact size: no matter how many functions integrated, smaller size is a always need. It's reasonable to choose SoC.
4. Everything portable: to realize this feature, we need lower power consumption, reliable battery support.
5. Rapid response (real-time response): most precise equipments, or critical devices, need very rapid response after data analysis. The SoC is the most reliable solution in such application.
6. Multi-cores (distributed, or pipeline) computing: in complex system, it may need individual processor (or DSP) for each application. Like a GPU is dedicated for graphic operations, graphic accelerator, video codec, a RTU for data acquisition. Finally, there are 5 processors in ST's DVD recorder, 8 processors in HDTV, more than 10 processors in a mobile handset. To integrate these processors as one SoC is a necessary solution.

NEXCOM SoC-based Platforms and Customizing Services

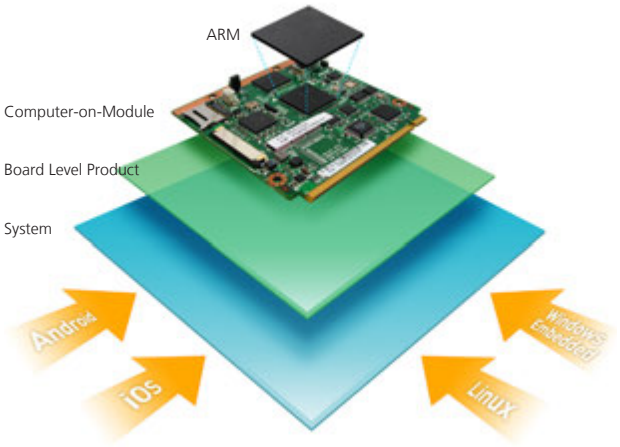
Since the mobile device application is becoming popular, the technology for SoC platform is enhancing fast. The performance of SoC based CPU is much higher than before and it is still with the benefits of low energy, compact size, easy to design. These features are also beneficial for industrial application. As the features of ARM based CPU, it can be designed as small form factor devices like box PC, panel PC, embedded board, vehicle computer, and even in network security appliance. The focus market can be industrial automation, POS/KIOSK, M2M and so on. NEXCOM provides the service for standard models, OEM/ODM service for system and board products. By leveraging our strong designing experience in versatile industrial applications, we can offer the complete service for meeting customers' requirements in SoC based platform.

Features and Benefits

- Low Power Consumption
- Compact size form factor
- Cost Effective
- Flexible Design and Manufacturing

Application and Market Focus

- Factory Automation Controller
- Machine Automation Controller
- Data Acquisition Server
- Communication Gateway
- HMI platform for Industrial Automation
- POS/ KIOSK Application
- Hardware device for M2M application
- Digital signage appliance
- In vehicle computing appliance
- Network security appliance



Network Application Appliances

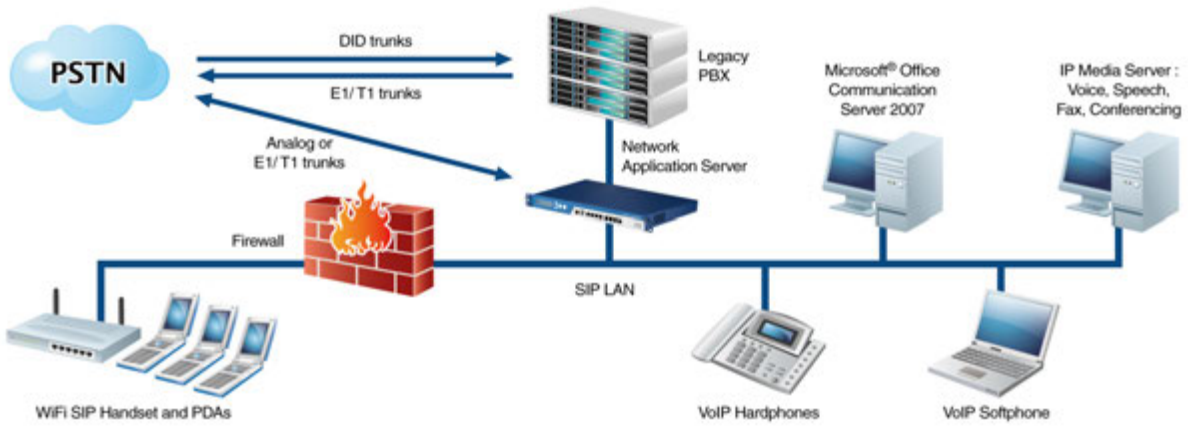
The Diversify Network Application Solutions

As consumers demand more sophisticated services over increasingly advanced networks, managing complexity is becoming more challenging. While enterprises and service providers alike may dream of simply replacing existing networks, the reality is that most legacy installations still work beautifully, forcing networks from various generations to co-exist and interconnect seamlessly for the foreseeable future.

NEXCOM offers a media appliance that interconnects different types of media streams to create a transparent end-to-end path for voice, video, and data in corporations and service provider environments. Available in a range of functionality and sizes, these gateways may also include premier bandwidth and codec optimization that can reduce costs significantly in the access and core portions of the network.

Rising to this interwork challenge, NEXCOM supplies a full suite of products ready to deliver video calls, text messaging, and location-based services and many other high-demand services over mobile, VoIP, and traditional networks. Whatever the need- from switching to transport- NEXCOM supplies the technology to create, manage and security control, voice, video, and data sessions simultaneously to meet your business.

VoIP Application Diagram



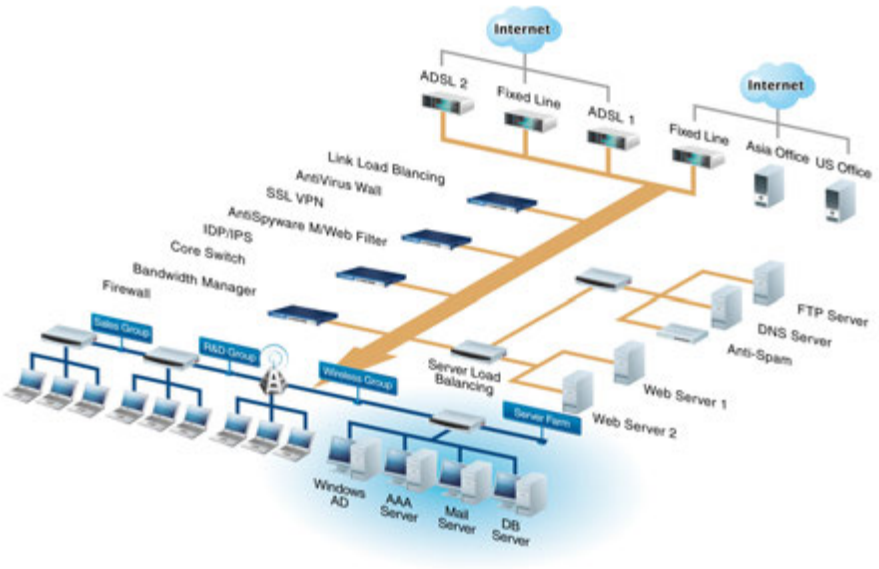
Network Security Appliance

Is Your Info Protected?

The invention of the Internet has broken down geographic barriers and created numerous business opportunities, however the Internet has also exposed businesses to the catastrophic danger of web attack. In the e-business generation, a company's daily operation relies on the Internet. Without proper Internet and network protection, an organization operation could be severely damaged by Internet attack, such as malicious hacking and security breach. Where a security breach occurs, the true cost of the incident is often difficult to measure, but could include the cost of server down time, stolen or lost data and subsequent loss of an organizations reputation.

The Most Trustworthy Network Security Solutions

To protect all of your valuable investments, NEXCOM offers a full range of network security platforms. Designed to fit various Network environments, NEXCOM's Network Security Appliances are designed to act as the solid foundation on which to host Virtual Private Network (VPN) as well as load balancing and Intrusion Detection System/ Intrusion Prevention System (IDS/ IPS). NEXCOM's network security solutions provide highly secure platforms to ensure the normal operation of your critical business systems.



Applications

- SSL VPN
- Link Load Balancing
- IDP/IPS
- Bandwidth Management
- Firewall
- Anti-Spyware
- UTM
- Network Access Control
- Web Filter
- AntiVirus Wall
- Core Switch
- Server Load Balancing
- IM Filter (Instant Message)
- Anti-Spam
- AAA Server

2013 New Products

NSA 7120R

Performance Platform

- Ultra high performance up to 8 cores
- Support DDR3 1333/ 1600 ECC & REG, up to 384GB
- Modular design supports 5 PCIe LAN Modules
- On Board RAID controller
- Support 10G SFP+, 1GbE Copper/ SFP LANs
- Support Two Swappable 2.5" SATA/ SAS HDD
- Support (1 + 1) Redundant Power Supply

NSA 3120

Entry Platform

- Intel® Xeon® processor E3-1125C processor, BGA type
- Support Two DDR3 1333/ 1600 Memory, up to 16GB
- Support One PCIe x8 Expansion
- Internal One 3.5" HDD Bay/ Two 2.5" HDD Bay (Optional)

Coming Soon

DNA 2610

Desktop Platform

- Freescale P1010 QorIQ, 533MHz processor
- On board DDR3 1GB Memory
- Support one Mini-PCIe Expansion
- 2 Giga LAN ports and 4 Giga switch ports
- On board 256MB NAND Flash
- One LAN port support PoE function

ISA 1110

Industrial-grade Platform

- DIN Rail System
- On-board Intel® Atom™ E620 CPU
- Intel® EG20T chipset
- On-board 512MB DDR2 800 memory
- Support 2 GbE LAN ports
- Support one SATA-DOM or One SATA 2.5"SSD (Optional)
- Fanless design System

Product Selection Guide

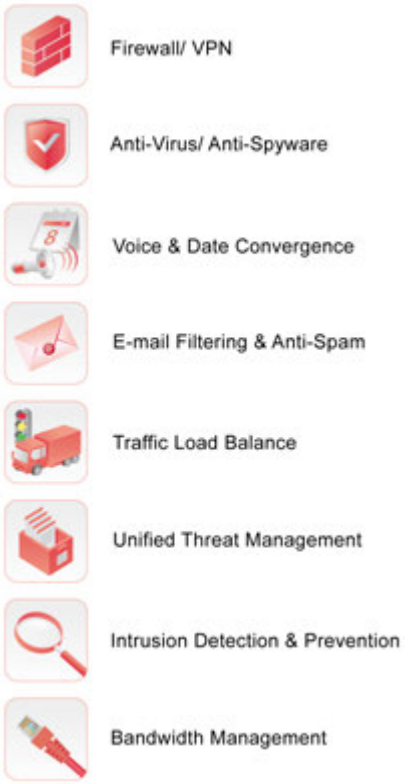
Gateway to Communication

NEXCOM delivers the trusted and reliable platforms for network security appliances. Building upon the standard x86 architecture, our products allow network security software vendors to create their own professional appliances easier without additional efforts in BIOS and drivers. With the integration of leading technology from x86 CPU, PCI-Express and I/O accelerations, the security and performance of customers' applications are greatly improved.

Features and Benefits

- **RoHS compliance:** commit to produce green products and services compliant with EU RoHS directive 2002/95/EU.
- **PCIe based GbE LAN:** our PCIe based network security appliances can be enhanced to utilize 10 Gigabit networks to boost network performance.
- **Dual/ quad core processors with I/O acceleration:** greatly improve CPU computing bandwidth in complex and intensive security computing. With sufficient processing power, they are appropriate for connection/ control- oriented and threat management-oriented network security appliances.
- **Modular design platforms:** can cope with diverse connection types from copper to fiber or from 2 ports to multi port. Security software vendors can focus on per port performance or increased connectivity with high port density.
- **LAN bypass:** enable connection fault tolerance for appliances, which act as the transparent bridges among networks. Users will hardly sense the network inaccessible when the appliances stops working due to hardware or software detects.

Applications and Market Focus



Full Range of Product Coverage

	Model	3-port	4-port	6-port	8-port	12-port	>=16-port
Performance	NSA 7110W		v	v	v	v	v
	NSA 7120R		v	v	v	v	v
Mainstream	NSA 5110				v		
	NSA 5120				v	v	v
	NSA 5130				v	v	v
	OSA 5130				v		
Entry Level	NSA 3111		v	v		v	
	NSA 3110		v		v		
	NSA 3130		v		v		
	NSA 2120		v		v		
	NSA 1120A			v			
Deskltop	DNA 113	v					
	DNA 2610			v			
	DNA 2620			v			
	DNA 1110A		v				
	DNA 1120A		v				
	DNA 2120A			v			

Network Security Appliance

Model				
	NSA 7110W	**NSA 7120R**	**NSA 5120**	**NSA 5130**
CPU	Support Intel® Xeon® 5500/ 5600 series processors 1066/ 1333 MHz FSB	Support Dual Intel® Xeon® processors (Sandy Bridge-EP) E5-2600 series, Socket R, LGA2011	Support Intel® Xeon® 3400, Core™ i7/ i5/ i3 series processors	2nd generation Intel® Core™ processor family/ Intel® Xeon® E3 family
RAM	6 x DDR3 800/ 1066 UDIMM and RDIMM, up to 24GB	12 x DDR3 1333/ 1600 UDIMM and RDIMM, up to 384GB	4 x DDR3 1066/ 1333 UDIMM and RDIMM,up to 16GB	4 x DDR3 1066/ 1333 DIMM, up to 16GB
Chipset	Intel® 5520 + Intel® ICH10R	Intel® C604	Intel® 3450 PCH	Intel® C206 PCH
LAN Chip	Intel® 82574L, 82575EB, 82580EB, 82598EB, 82599EB	Intel® 82580EB, Intel® 82599EB, Intel® X540	Intel® 82574L	Intel® 82583V
GbE	Max 26 ports	Max 42 ports	Max 8 + 8 ports	Max 8 + 8 ports
HDD	3.5" HDD Bay x 4	2 x 2.5" HDD Swappable bays	3.5" HDD Bay x 1 or 2.5" HDD x 2 (Option)	3.5" HDD Bay x 1 or 2.5" HDD x 2 (Option)
CF/C-Fast	1/0	0/1	1/0	1/0
DOM	SATA DOM x 1	0	SATA DOM x 1	SATA DOM x 1
Serial	1 at front (RJ-45 Connector)	1 at front (RJ-45 Connector)	1 at front (RJ-45 Connector)	1 at front (RJ-45 connector)
IDE/ SATA	0/6	0/4	0/4	0/3
USB	2 at front	2 at front	2 at front	2 at front
Expansion	PCIe slot x 1 LAN Module Bay x 3	LAN Module Bay x 5	PCIe slot x 1 LAN Module Bay x 1	PCIe slot x 1 Lan Module Bay x 1
LCM Module	2 x 16, PIO	2 x 16, PIO	2 x 16, PIO	2 x 16, PIO
Indicators	Power, HDD, Bypass LED, GPIO LED	Power, HDD, Bypass LED, GPIO LED	Power, HDD, Bypass LED, GPIO LED	Power, HDD, Bypass LED
Power	460W ATX redundant power supply	460W ATX redundant power supply	250W ATX power supply	200W ATX power supply, 200W ATX redundant power supply (Option)
Form Factor	2U	2U	1U	1U
Dimenions (mm)	426 x 580 x 88	88 x 430 x 579.8	426 x 450 x 44	426 x 450 x 44

			
OSA 5130	**NSA 1110**	**NSA 1120**	**NSA 3110**
2nd generation Intel® Core™ processor family/ Intel® Xeon® E3 family	Intel® Atom™ D510/ D410 processor	Intel® Atom™ D525/ D425 processor	Support Intel® Core™ 2 Quad/ Core™ 2 Duo/ Pentium® Dual-Core/ Celeron® processors, LGA775 socket, 800/ 1066/ 1333 MHz FSB
4 x DDR3 1066/ 1333 DIMM, up to 16GB	1 x DDR2 667/ 800 DIMM, up to 2GB	1 x DDR3 800 SO-DIMM, up to 2GB	2 x DDR3 1066 DIMM, up to 4GB
Intel® C206 PCH	Intel® ICH8M	Intel® ICH8M	Intel® G41 + ICH7R
Intel® 82583V	Intel® 82583V	Intel® 82583V	Intel® 82574L
Max 8 ports	6 ports	6 ports	8 ports
3.5" HDD Bay x 1 or 2.5" HDD x 2 (Option)	3.5" HDD Bay x 1or 2.5" HDD x 2 (Option)	3.5" HDD Bay x 1 or 2.5" HDD x 2 (Option)	3.5" HDD Bay x 1 or 2.5" HDD x 2(Option)
1/0	1 (Option)	1 (Option)	1/0
SATA DOM x 1	SATA DOM x 1	SATA DOM x 1	SATA DOM x 1
1 at front (RJ-45 connector)	1 at front (RJ-45 connector)	1 at front (RJ-45 connector)	1 at front (RJ-45 connector)
0/3	1/2	1/2	0/3
2 at front	2 at front	2 at front	2 at front
PCIe slot x 2	PCI slot x 1	PCI slot x 1	PCIe slot x 1 Mini-PCI socket x 1
2 x 16, PIO	2 x 16, PIO	2 x 16, PIO	2 x 16, PIO
Power, HDD, Bypass LED	Power, HDD, Bypass LED	Power, HDD, Bypass LED	Power, HDD, Bypass LED
200W ATX power supply, 200W ATX redundant power supply (Option)	100W ATX power supply	100W ATX power supply	200W ATX power supply
1U	1U	1U	1U
426 x 450 x 44	426 x 238 x 44	426 x 238 x 44	426 x 365 x 44

Network Security Appliance

Model	Coming Soon		
	NSA 3120	**NSA 3130**	**NSA 3111**
CPU	Intel® Xeon® processor E3-1125C Processor, BGA type	2nd generation Intel® Core™ processor family	Support Intel® Core™ 2 Quad/ Core™ 2 Duo/ Pentium® Dual- Core/ Celeron® processors, LGA775 socket, 800/ 1066/ 1333 MHz FSB
RAM	2 x DDR3 1333/ 1600 Memory, up to 16GB	2 x DDR3 1333/ 1600 DIMM, up to 8GB	2 x DDR2 667/ 800 DIMM, up to 4GB
Chipset	Intel® 8910 PCH	Intel® H61 PCH	Intel® G41 + ICH7R
LAN Chip	Intel® i210	Intel® 82583V	Intel® 82574L
GbE	Max 8 ports	Max 8 ports	Max 6 + 8 ports
HDD	3.5" HDD Bay x 1 or 2.5" HDD x 2 (Option)	3.5" HDD Bay x 1 or 2.5" HDD x 2 (Option)	2.5" HDD Bay x 1
CF/C-Fast	0/1	0/1	1/0
DOM	SATA DOM x 1	SATA DOM x 1	SATA DOM x 1
Serial	1 at front (RJ-45 connector)	1 at front (RJ-45 connector)	1 at front (RJ-45 connector)
IDE/ SATA	0/2	0/3	0/3
USB	2 at front	2 at front	2 at front
Expansion	PCIe slot x 1	PCIe slot x 1	PCI slot x 1 LAN Module Bay x 1
LCM Module	2 x 16, PIO	2 x 16, PIO	2 x 16, PIO
Indicators	Power, HDD, Bypass LED	Power, HDD, Bypass LED	Power, HDD, Bypass LED
Power	250W ATX power supply	200W ATX power supply	200W ATX power supply
Form Factor	1U	1U	1U
Dimenions (mm)	426 x 365 x 44	426 x 365 x 44	426 x 450 x 44

Model			
	DNA 110	**DNA 1110**	**DNA 1120**
CPU	Intel® Atom™ E620 CPU	Intel® Atom™ D510/ D410 processors	Intel® Atom™ D525/ D425 processor
RAM	On-board 512MB DDR2 667/ 800 memory, up to 1GB	1 x DDR2 667/ 800 DIMM, up to 2GB	1 x DDR3 800 SO-DIMM, up to 2GB
Chipset	Intel® EG20T chipset	Intel® ICH8M	Intel® ICH8M
LAN Chip	Intel® 82583V	Intel® 82583V	Intel® 8253V
GbE	3 ports	4 ports	4 ports
HDD	N/A	2.5" HDD Bay x 1	2.5" HDD Bay x 1
CF	N/A	1	1
DOM	SATA DOM x 1	SATA DOM x 1	SATA DOM x 1
Serial	1 at front (RJ-45 connector)	1 at front (RJ-45 connector)	1 at rear (RJ-45 connector)
IDE/ SATA	0/2	0/2	0/2
USB	2 at rear	2 at rear	2 at rear
Expansion	Mini-PCIe slot x 1	PCI Slot x 1, Mini-PCI slot x1	PCI Slot x 1, Mini-PCI slot x 1
LCM Module	N/A	N/A	N/A
Indicators	Power, GPIO LED	Power, HDD, Bypass LED	Power, HDD, Bypass LED
Power	40W power adapter	45W power adaptor	45W power adaptor
Form Factor	Desktop	Desktop	Desktop
Dimenions (mm)	79.9 x 114.9 x 37.5	272 x 195 x 44	272 x 195 x 44

Network Security Appliance

Model			
	DNA 2120	**DNA 2610**	**DNA 2620**
CPU	Intel® Atom™ D525/ D425 processor	Freescale P1010 QorIQ Processor, 533MHz	Freescale P1020 QorIQ Processor, 800MHz
RAM	On-board 2GB DDR3 667/ 800 memory, 1 x DDR3 800 DIMM, up to 4GB	On board DDR3 1GB Memory	On board DDR3 1GB Memory
Chipset	Intel® ICH8M	RTL8367VB - CG GbE Switch	Vitesse GbE L2 Switch VSC7385
LAN Chip	Intel® 82583V	N/A	N/A
GbE	6 ports	2 LAN ports + 4 Switch ports	2 LAN ports + 4 Switch ports
HDD	2.5" HDD Bay x 1	On board 256MB NAND Flash	On board 256MB NAND Flash
CF	1	N/A	N/A
DOM	SATA DOM x 1	N/A	N/A
Serial	1 at rear (RJ-45 connector)	1 x DB9 type console port	1 x DB9 type console port
IDE/ SATA	0/2	0/0	0/0
USB	2 at rear	1 at rear	1 at rear
Expansion	Mini-PCIe slot x 1	Mini-PCIe slot x 2	Mini-PCIe slot x 2
LCM Module	N/A	N/A	N/A
Indicators	Power, HDD, Bypass LED	Power, HDD	Power, HDD
Power	40W power adaptor	40W power adaptor	40W power adaptor
Form Factor	Desktop	Desktop	Desktop
Dimenions (mm)	250 x 194 x 40	230 x 187 x 30	230 x 187 x 30

Model		Coming Soon		
	ISA 1110	**ISA 1610**	**ISA 2120**	**ISA 3120**
CPU	Intel® Atom™ E620 600 MHz	Freescale P1010 QorIQ Processor, 533MHz	Intel® Atom™ D510 Dual Core 1.66GHz processor	Intel® Atom™ D525 Dual Core 1.8GHz
RAM	On-board 512MB DDR2 800 Memory	On board DDR3 1GB Memory	1GB DDR2 800MHz SODIMM, up to 2GB	1GB DDR3 1333MHz SODIMM, up to 4GB
Chipset	Intel® EG20T chipset	MARVELL 88E6172 Gbe switch	Intel® ICH8M	Intel® ICH8M
LAN Chip	Intel® 82574L	N/A	RTL8111E	Intel® 82574L
GbE	2 ports	2 LAN ports + 4 Switch ports	3 ports	3 ports with M12 connector
HDD	N/A	On board 256MB NAND Flash	2.5" SSD x 1	2.5" SSD x 1
CF	N/A	N/A	N/A	C- Fast
DOM	SATA DOM x 1	N/A	1	1
Serial	1 at front (DB9 connector)	1 x DB9 type console port	2 x RS232, 1 x RS485	2 x RS232, 1 x RS485
IDE/ SATA	0/2	0/0	0/1	0/1
USB	2 at rear	1	4	2
Expansion	N/A	Mini-PCIe slot x 1	1 x Mini-PCIe socket (PCIe + USB) for WLAN option 1 x Mini-PCIe socket (USB) for 3.5G module option 1 x GPS module	1 x Mini-PCIe socket (PCIe + USB) for WLAN module 1 x Mini-PCIe socket (USB) for 3.5G module 1 x GPS module
LCM Module	N/A	N/A	N/A	N/A
Indicators	Power, GPIO LED	Power, GPIO LED	4 x LED for power, SSD, WWAN and WLAN	4 x LED for power, SSD, WWAN and WLAN
Power	12V, 60W AC/ DC power adapter	40W power adaptor	8~60V wide range DC power input	DC power input
Form Factor	DIN Rail	DIN Rail	Aluminum enclosure with fanless design	Aluminum enclosure with fanless design
Dimenions (mm)	59 x 140 x 167	59 x 140 x 167	260 x 176 x 50	260 x 178 x 70

TCP 9120

Dual Intel® Xeon® E5 Series Processors, AdvancedTCA CPU Blade

Coming Soon

Main Features

- Dual Intel® Xeon® E5-2658 or E5-2648L Processors
- Intel® Communications Chipset 8920
- 8 DDR3 VLP ECC Memory DIMMs, up to 128GB main memory
- Up to eight 10GBase-KR ports on Fabric interface
- 2 x 10/ 100/ 1000BASE-T ports on front panel
- Hot swappable RTM with 28 PCIe Gen.3 lanes

Specifications

Main Board
- TCB 9120
- One or two Intel® Xeon® E5-2658 or E5-2648L Processors
- Intel® Communications Chipset 8920

Main Memory
- 8 x DDR3 VLP ECC Memory DIMMs

LAN Features
- Intel® i350 Duad Gigabit Ethernet Controller
- Up to 4 Intel® 82599 dual 10 Gigabit Ethernet Controller
- Intel 8920® Chitset integrated Quad GbE MAC + i347 Quad PHY

Miscellaneous
- 1 x MO-297 SSD Sockets

I/O Interface-Front
- Power/ Reset buttons
- Status LEDs
- 1 x RJ45 type console port
- 2 x 10/ 100/ 1000BASE-T ports
- 2 x USB 2.0 Type A ports

Zone 3 (Rear Transition Module)
- 2 x USB 2.0 Type A ports
- 1 x RJ45 type console port
- 2 x or 4 x 10/ 100/ 1000BASE-T ports
- Optional 4 x 10G SFP+ ports
- Optional 2 x SAS connectors, up to 8 x HDDs
- Optional 1 x SATA connector

Devices
- 1 x MO-297 SSD

Power Input
- Dual-redundant -48/ -60 VDC rail
- Input range: -39 to -72 VDC

Dimensions
- Blade Size: 280mm x 322.5mm, single slot
- Carton Dimension: TBD

Weight
- Without Packing: TBD
- With Packing: TBD

Compliance
- FCC Class A, CE Mark
- Certified to UL
- Designed to meet NEBS and ETSI requirements
- Compliant to PICMG 3.0 R3.0 and PICMG 3.1 option 1/ 9

Ordering Information

- **TCP 9120 (P/N: TBD)**
  Support Intel® Xeon® E5 series processors, 8 x DDR3 VLP memory DIMMs, 1 x MO-297 SSD sockets, i350 Dual GbE controller, up to 4 x 82599 Dual 10GbE controller, RJ45 console port, 2 x USB ports, up to 6 x 10/ 100/ 1000BASE-T ports
- **RTM 9120-A (P/N: TBD)**
  4 x 10/ 100/ 1000BASE-T ports base on Intel® NHi350-AM4, 4 x 10G SFP+ ports base on Intel® 82599, 2 SAS interfaces to support 8 external HDDs base on LSI SAS2308 controller, RJ45 console port 2 x USB ports
- **RTM 9120-B (P/N: TBD)**
  2 x 10/ 100/ 1000 BASE-T ports base on Intel® NHi350-AM2, 2 SAS connector for 2 HDDs mounted base on LSI 1064E controller, RJ45 console port, 2 x USB ports

NSA 7110W

Intel® Xeon® 5500/ 5600 Series Processors

2U Rackmount up to 25 GbE LAN

Main Features

- Ultra High Performance with Quad-Core Processors and IOAT3 Function
- Support DDR3 800/ 1066 ECC & REG/ Non-ECC Memory, up to 24GB
- Modular Design Support 3 PCIe LAN Modules
- Support 10G XFP/ SFP+, 1GbE Copper/SFP LAN
- Support PCIe EM Ethernet Card
- Support PCI-X and PCIe x8 Expansion Slot
- On-board CF Socket
- Four Swappable 3.5" Support SATA/ SAS HDD
- Support (1 + 1) Redundant Power Supply
- Support LCD Module

Specifications

Main Board
- NSB 7110W
- Support Intel® Xeon® 5500/ 5600 series processors, LGA1366 socket
- Support 4.8/ 5.86/ 6.4 GT/s QPI speed
- Intel® 5520 and ICH10R chipset

Main Memory
- 6 x 240-pin DDR3 800/ 1066 DIMM slots, up to 24GB ECC&REG and non-ECC SDRAM

LAN Features
- Swappable LAN modules
- LAN chip: Intel® 82574L/ 82575EB/ 82580EB/ 82598EB/ 82599EB
- Support 10/ 100/ 1000/ 10G link speed
- LAN Bypass: ** Please see LAN module list information

Expansion
- 1 x PCIe x8 slot (Default)
- 2 x PCIe x4 solt (Optional)
- 2 x PCI-X solt (Optional)

I/O Interface-Front
- Support 2 x 16 characters LCD module, PIO interface
- Power status/ HDD status/ LAN status/ Bypass status LEDs
- 4 x 3.5" HDD swappable bays
- 3 x LAN module bays
- 2 x USB 2.0 ports
- 1 x RJ45 type console port
- 1 x software button
- 1 x management LAN ports

I/O Interface-Rear
- 2 x swappable system FANs
- 1 x expansion slot for PCIe x8
- 2 x expansion slots for PCI-X (Optional)
- 2 x expansion slots for PCIe x4 (Optional)
- 1 x VGA Port

Devices
- 1 x on-board CompactFlash socket
- 1 x SATA-DOM device space

Power Input
- 460W 1+1 ATX redundant power supply

Chassis Dimensions
- Chassis dimension: 430mm x 580mm x 88mm
- Carton dimension: 640mm x 800mm x 310mm

Weight
- Without packing: 19kg
- With packing: 25kg

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone

- **NSA 7110W (P/N:10S00711002X0)**

  Support Intel® Xeon® 5500/ 5600 series processors, 6 DDR3 memory slots, Max. 25 Gigabit LAN ports, CompactFlash socket, VGA, USB port, one PCIe x8 expansion slot With LCM

NSK 5175-C8

PCIe GbE module with 8 copper ports base on Intel® 82575EB chipset and 2 pairs dual latch Bypass

NSK 5175-F8

PCIe GbE module with 8 SFP ports base on Intel® 82575EB chipset

NSK 5175-C4F4

PCIe GbE module with 4 copper and 4 SFP ports base on Intel® 82575EB chipset and 2 pairs dual latch Bypass

NSK 5198-F2

PCIe 10G module with 2 XFP ports base on Intel® 82598EB chipset

	P/N	Controller	Interface Type	Port Number	Bypass/ Segment	Expansion Slot	Location Slot
NSK 5176-C4	10SK0517601X0	Intel® 82576EB	PCIe x8	4 Copper	Dual Latch/ 2	None	All Slot
NSK 5176-F4	10SK0517603X0	Intel® 82576EB	PCIe x8	4 SFP	None	None	All Slot
NSK 5175-C8	10SK0517509X0	Intel® 82575EB	PCIe x8	8 Copper	Dual Latch/ 2	None	All Slot
NSK 5175-F8	10SK0517510X0	Intel® 82575EB	PCIe x8	8 SFP	None	None	All Slot
NSK 5175-C4F4	10SK0517511X0	Intel® 82575EB	PCIe x8	4 Copper/ 4 SFP	Dual Latch/ 2	None	All Slot
NSK 5198-F2	10SK0519803X0	Intel® 82598EB	PCIe x8	2 XFP	None	None	All Slot
NSK 5198-EMB	10SK0519804X0	Intel® 82575EB	PCIe x8	2 fiber on board	1	None	All Slot
NSK 5180-C8	10SK0518000X0	Intel® 82580EB	PCIe x8	8 Copper	Dual Latch/ 2	None	All Slot
NSK 5180-F8	10SK0518001X0	Intel® 82580EB	PCIe x8	8 SFP	None	None	All Slot
NSK 5180-C4F4	10SK0518002X0	Intel® 82580EB	PCIe x8	4 Copper/ 4 SFP	Dual Latch/ 2	None	All Slot
NSK 5199-F2	10SK0519900X0	Intel® 82599EB	PCIe x8	2 SFP+	None	None	All Slot
NIO 1101	10SK0110100X0	Aspeed	NEXCOM	1 for IPMI	None	None	IPMI Slot
NSK 3100-1 (PCIe Riser) Default	20SK0310000X0	None	PCIe x8	None	None	1 x PCIe x8	Riser Card
NSK 3102 (PCIe Riser)	20SK0310200X0	None	PCIe x8	None	None	2 x PCIe x4	Riser Card
NSK 3201-2 (PCI-X Riser)	20SK0320101X1	PERICOM	PCIe x8	None	None	2 x PCI-X	Riser Card

NSA 7120B/7120R

Dual 8-Core Intel® Xeon® E5-2600 Processors for Multi-Thread Network Processing

Main Features

- Ultra high performance up to 8/ 16 cores
- Support DDR3 1333/ 1600 ECC & REG, up to 384GB
- Modular design supports 5 PCIe LAN Modules
- On Board RAID controller
- Support 10G SFP+ & 10G Copper, 1GbE Copper/ SFP LANs
- On-board CFast Socket
- Support Two Swappable 2.5" SATA/ SAS HDD
- Support (1 + 1) Redundant Power Supply
- Support LCD Module
- Support PCIe EM Ethernet Card

Specifications

Main Board
- NSB 7120R
- Dual Intel® Xeon® Processors (Sandy Bridge-EP) E5-2600 series, Socket R, LGA2011
- Support 8/ 16 GT/s QPI Speed
- Intel® C604
- LSI 2308 RAID controller

Main Memory
- 12 x 240-pin DDR3 1333/ 1600 DIMM Sockets, up to 384GB ECC & REG SDRAM

LAN Features
- Swappable LAN Modules
- LAN Chip: Intel® 82580EB/ 82599EB/ I350 /X540
- Support 10/ 100/ 1000/ 10G link speed
- LAN Bypass: ** please see Lan module list information

I/O Interface-Front
- Support 2 x 16 Characters LCD module, PIO interface
- Power status/ HDD status/ LAN status/ Bypass status LEDs
- 2 x 2.5" HDD Swappable bays
- 5 x LAN Module bays
- 2 x USB 2.0 ports
- 1 x RJ45 type Console port
- 1 x Software button
- 2 x Management LAN ports

I/O Interface-Rear
- 3 x Swappable System FANs
- 1 x VGA Port
- 2 x USB2.0 ports

Devices
- 1 x on-board CFast socket

Power Input
- 460W 1+1 ATX Redundant Power Supply

Chassis Dimensions
- Chassis Dimension: 88mm x 430mm x 579.8mm
- Carton Dimension: 640mm x 800mm x 310mm

Weight
- Without packing: 19kg
- With packing: 25kg

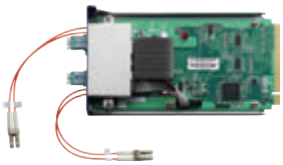
Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone

- **NSA 7120R (P/N: 10S00712002X1)**
  Support Intel® Xeon® E5 series processors, 12 DDR3 memory slots, Max.42 Gigabit LAN ports, CFast Socket, VGA, USB port,With RAID controller With LCM
- **NSA 7120B (P/N: 10S00712001X1)**
  Support Intel® Xeon® E5 series processors, 12 DDR3 memory slots, Max.42 Gigabit LAN ports, CFast Socket, VGA, USB port, W/O RAID controller With LCM
- **NSK 5180R-F8**
  PCIe 1GbE module with 8 SFP ports base on Intel® 82580EB chipset
- **NSK 5180R-C4F4**
  PCIe 1GbE module with 4 copper and 4 SFP ports base on Intel® 82580EB chipset and 2 pairs dual latch bypass
- **NSK 5199R-F2**
  PCIe 10GbE module with 2 SFP+ ports base on Intel® 82599EB chipset
- **NSK 5180R-C8**
  PCIe 1GbE module with 8 copper ports base on Intel® 82580EB chipset and 2 pairs dual latch bypass
- **NSK 5150R-F4B-MB**
  PCIe 1GbE module with 4 SFP ports base on Intel® I350 chipset and 2 pairs dual latch bypass

- **NSK 5199-F2B-MB**
  PCIe 10GbE module with 2 SFP+ ports base on Intel® 82599 chipset and 1 pairs dual latch bypass



	P/N Controller	Interface	Type	Port Number	Bypass/ Segment	Expansion Slot	Location Slot
NSK 5180R-C8	10SK0518016X1	Intel® 82580EB	PCIe x8	8 Copper	Dual Latch/ 2	None	All Slot
NSK 5180R-F8	10SK0518015X1	Intel® 82580EB	PCIe x8	8 SFP	None	None	All Slot
NSK 5180R-C4F4	10SK0518014X1	Intel® 82580EB	PCIe x8	4 Copper/ 4 SFP	Dual Latch/ 2	None	All Slot
NSK 5199R-F2	10SK0519900X0	Intel® 82599	PCIe x8	2 SFP+	None	None	All Slot
NSK 5140R	10SK0514002X0	Intel® X540	PCIe x8	2 10G Copper	None	None	All Slot
NSK 5150R-C8	10SK0515003X0	Intel® I350	PCIe x8	8 Copper	Dual Latch/ 2	None	All Slot
NSK 5150R-F8	10SK0515002X0	Intel® I350	PCIe x8	8 SFP	None	None	All Slot
NSK 5150R-C4F4	10SK0515001X0	Intel® I350	PCIe x8	4 Copper/ 4 SFP	Dual Latch/ 2	None	All Slot
NSK 5150-F4B-MB	10SK0515000X1	Intel® I350	PCIe x8	4 SFP	Dual Latch/ 2	None	All Slot
NSK 5199R-F2B-MB	10SK0519905X1	Intel® 82599	PCIe x8	2 SFP+	Dual Latch/ 1	None	All Slot
NSK 1104	10SK0110400X0	None	PCIe x8	None	None	PCIe x8	A, B, C

NSA 5120

Intel® Xeon® 3400/ i7/ i5/ i3 Series Processors
1U Rackmount with 8+8 PCIe GbE LAN

Main Features

- 1U Rackmount Network Platform
- Intel® Xeon® 3400/ i7/ i5/ i3 Processors
- Support DDR3 1066/ 1333 Memory, up to 16GB
- Support One LAN Module, One PCIe x8 Expansion
- Internal one 3.5" HDD Bay/ two 2.5" HDD Bay (Optional)
- Support LCD Module (Optional)

Specifications

Main Board
- NSB 5120
- Support Intel® Xeon® 3400/ i7/ i5/ i3 series Processors, Max 95watt
- Intel® 3450 PCH

Main Memory
- 4 x 240-pin DDR3 1066/ 1333MHz DIMM slots, Up to 16GB ECC/ Non-ECC SDRAM

LAN Features
- LAN Chip: Intel® 82574L
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 4 pairs
- LAN module (Optional)

Expansion
- 1 x PCIe x8 Slot

I/O Interface-Front
- Support 2 x 16 Characters LCD Module, PIO interface (Optional)
- Power status/ HDD status/ LAN status/ Bypass status LEDs
- 2 x USB 2.0 Ports
- 1 x software button
- 1 x RJ45 type Console Port
- 8 x Copper LAN Ports
- 1 x LAN Module Support (Optional)

I/O Interface-Rear
- 1 x Expansion Slot
- 2 x USB 2.0 Ports
- 1 x VGA Port

Devices
- 1 x On-board CompactFlash Socket
- 1 x Internal 3.5" HDD bay
- 1 x SATA-DOM device space

Power Input
- 200W ATX Power Supply

Dimensions
- Chassis Dimension: 426mm x 450mm x 44mm
- Carton Dimension: 560mm x 620mm x 190mm

Weight
- Without Packing: 8Kg
- With Packing: 12Kg

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone
- **NSA 5120 (P/N: 10S00512000X0)**
  Support Intel® Xeon® 3400/ i7/ i5/ i3 series processors, 4 DDR3 memory slots, 8 PCIe GbE LAN ports, CompactFlash Socket, USB ports, VGA port, One PCIe x8 Expansion Slot, w/o LCM

Options
- **NSA 5120 LCM & MEMBRANE (P/N: 88S00512000X0)**

NSK 5275-C8

PCIe GbE module with 8 copper ports base on Intel® 82575EB chipset and 2 pairs dual latch bypass

NSK 5275-F8

PCIe GbE module with 8 SFP ports base on Intel® 82575EB chipset

NSK 5275-C4F4

PCIe GbE module with 4 copper and 4 SFP ports base on Intel® 82575EB chipset and 2 pairs dual latch bypass

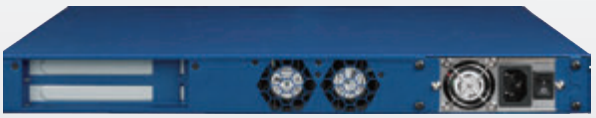
NSK 5298-F2

PCIe 10G module with 2 XFP ports base on Intel® 82598EB chipset

	P/N	Controller	Interface Type	Port number	Bypass/ Segment
NSK 5275-C4	10SK0527500X0	Intel® 82575EB	PCIe x8	4 Copper	Dual Latch/ 2
NSK 5275-F4	10SK0527501X0	Intel® 82575EB	PCIe x8	4 SFP	None
NSK 5276-C2	10SK0527600X0	Intel® 82576EB	PCIe x8	2 Copper	Dual Latch/ 1
NSK 5276-F2	10SK0527601X0	Intel® 82576EB	PCIe x8	2 SFP	None
NSK 5275-F8	10SK0527503X0	Intel® 82575EB	PCIe x8	8 SFP	None
NSK 5275-C4F4	10SK0527505X0	Intel® 82575EB	PCIe x8	4 Copper/ 4 SFP	Dual Latch/ 2
NSK 5298-C2	10SK0529800X0	Intel® 82598EB	PCIe x8	2 CX4	None
NSK 5298-F2	10SK0529801X0	Intel® 82598EB	PCIe x8	2 XFP	None

NSA 5130

2nd Generation Intel® Core™ Processor Family/ Intel® Xeon® E3 Family, 1U Rackmount with 8 PCIe GbE LAN



Main Features

- 2nd Generation Intel® Core™ Processor Family/ Intel® Xeon® E3 Family
- Support 1333/ 1600 DDR3 SDRAM , up to 16GB
- Support One PCIe x8 Expansion
- Internal One 3.5" HDD Bay/ Two 2.5" HDD Bay (Optional)

Specifications

Main Board
- NSB 5130
- Support 2nd generation Intel® Core™ processor family/ Intel® Xeon® E3 family, Max 95watt
- Intel® C206

Main Memory
- 4 x 240-pin DDR3 Support 1333/ 1600 MHz DIMM slots, up to 16GB

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000M/10G link speed
- LAN Bypass: 4 pairs
- LAN module (Optional)

Expansion
- 1x PCIe x8 Slot

I/O Interface-Front
- Power status/ HDD status/ LAN status/ Bypass status LED
- 2 x USB 2.0 ports
- 1 x RJ45 type console port
- 8 x Copper LAN ports
- 1 x LAN module (Optional)

I/O Interface-Rear
- 1 x expansion slot
- 2 x USB 2.0 ports (Optional)
- 1 x VGA port (Optional)

Devices
- 1 x on-board CompactFlash socket
- 1 x internal 3.5" HDD bay/ two 2.5" HDD Bay (Optional)
- 1 x SATA-DOM device space

Power Input
- 200W ATX Power Supply

Dimensions
- Chassis Dimension: 426mm x 450mm x 44mm
- Carton Dimension: 560mm x 620mm x 190mm

Weight
- Without Packing: 8Kg
- With Packing: 12Kg

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone

- **NSA 5130 (P/N: 10S00513000X0)**

  Support 2nd generation Intel® Core™ processor family/ Intel® Xeon® E3 family, 4 DDR3 memory slots, 8 PCIe GbE LAN ports, CompactFlash socket, USB ports, one PCIe x8 expansion slot, w/o LCM

- **NSA 5130HA (P/N: 10S00513006X1)**

  Support 2nd generation Intel® Core™ processors, 4 DDR3 memory slots, 8 PCIe GbE LAN ports, CompactFlash socket, USB ports, one PCIe x8 expansion slot, w/o LCM, 200W 1+1 redundant power supply, only support 2.5" HDD Bay

Option

- **NSA 5130 VGA kit (P/N: 60233VGA42X00)**

NSK 5380-C8

PCIe GbE module with 8 copper ports base on Intel® NH82580EB chipset and 2 pairs dual latch bypass

NSK 5380-F8

PCIe GbE module with 8 SFP ports base on Intel® NH82580EB chipset

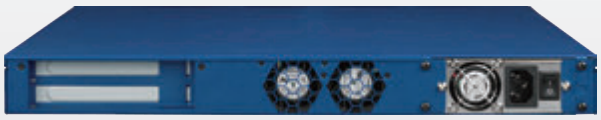
NSK 5399-F2

PCIe GbE module with 2 SFP+ ports base on Intel® JL82599ES chipset

	P/N	Controller	Interface Type	Port Number	Bypass / Segment
NSK 5380-C8	10SK0538000X0	Intel® 82580EB	PCIe x8	8 Copper	Dual Latch/ 2
NSK 5380-F8	10SK0538001X0	Intel® 82580EB	PCIe x8	8 SFP	None
NSK 5380-C4F4	10SK0538002X0	Intel® 82580EB	PCIe x8	4 Copper/ 4 SFP	Dual Latch/ 2
NSK 5380-F4	10SK0538003X0	Intel® 82580EB	PCIe x8	4 SFP	None
NSK 5399-F2	10SK0539900X0	Intel® 82599EB	PCIe x8	2 SFP+	None
NSK 5340	10SK0534000X0	Intel® X540	PCIe x8	2 Copper	None
NSK 5350-C8	10SK0535006X0	Intel® I350	PCIe x8	8 Copper	Dual Latch/ 2
NSK 5350-F8	10SK0535002X0	Intel® I350	PCIe x8	8 SFP	None
NSK 5350-C4F4	10SK0535004X0	Intel® I350	PCIe x8	4 Copper/ 4 SFP	Dual Latch/ 2
NSK 5350-F4B	10SK0535000X0	Intel® I350	PCIe x8	4 SFP	Dual Latch/ 2
NSK 5399-F2B	10SK0539902X0	Intel® 82599EB	PCIe x8	2 SFP	Dual Latch/ 1

OSA 5130

2nd Generation Intel® Core™ Processor Family/ Intel® Xeon® E3 Family
1U Rackmount with 8 PCIe GbE LAN



Main Features

- 1U Rackmount Network Platform
- 2nd Generation Intel® Core™ Processor Family/ Intel® Xeon® E3 Family
- Support 1333/ 1600 SDRAM Memory, up to 16GB
- Support Two PCIe x8 Expansion
- Internal One 3.5" HDD Bay/ Two 2.5" HDD Bay (Optional)
- Support Redundant Power Supply (Optional)

Specifications

Main Board
- OSB 5130
- Support 2nd generation Intel® Core™ processor family/ Intel® Xeon® E3 family
- Intel® C206

Main Memory
- 4x 240-pin DDR3 Support 1333/ 1600MHz DIMM slots, up to 16GB

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 4 pairs

Expansion
- 2 x PCIe x8 Slot

I/O Interface-Front
- Power status/ HDD status/ LAN status/ Bypass status LED
- 2 x USB 2.0 ports
- 1 x RJ45 type console port
- 8 x Copper LAN ports

I/O Interface-Rear
- 2 x expansion slots
- 2 x USB 2.0 ports (Optional)
- 1 x VGA port (Optional)

Devices
- 1 x On-board CompactFlash socket
- 1 x internal 3.5" HDD bay/ two 2.5" HDD Bay (Optional)
- 1 x SATA-DOM device space

Power Input
- 200W ATX power supply/ 200W 1+1 redundant power supply (Optional)

Dimensions
- Chassis Dimension: 426mm x 450mm x 44mm
- Carton Dimension: 560mm x 620mm x 190mm

Weight
- Without Packing: 8Kg
- With Packing: 12Kg

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone

- **OSA 5130 (P/N: 10SV0513000X0)**
  Support Intel® 2nd generation Core™ processors, 4 DDR3 memory slots, 8PCIe GbE LAN ports, CompactFlash socket, USB ports, two PCIe x8 expansion slot, w/o LCM, 200W ATX power supply
- **OSA 5130 HA (P/N: 10SV0513002X1)**
  Support Intel® 2nd generation Core™ processors, 4 DDR3 memory slots, 8PCIe GbE LAN ports, CompactFlash socket, USB ports, two PCIe x8 expansion slot, w/o LCM, 200W 1+1 redundant power supply only support 2.5" HDD Bay

Option

- **OSA 5130 LCM & MEMBRANE (P/N: 88SV0513000X0)**

NSA 1110

Intel® Atom™ D510 Dual Core/ D410 Single Core 1.66GHz Processors
1U Rackmount with 6 PCIe GbE LAN Ports

Main Features

- 1U Rackmount Network Platform
- Intel® Atom™ D510 Dual Core/ D410 Single Core 1.66 GHz Processor
- Support DDR2 667/ 800 Memory, up to 2GB
- 6 x GbE LAN Ports
- Support LAN Bypass
- Internal one 3.5" HDD Bay/ two 2.5" HDD Bay (Optional)
- Support LCD Module (Optional)

Specifications

Main Board
- NSB 1110
- Support Intel® Atom™ D510 Dual Core/ D410 Single Core 1.66GHz Processor
- Intel® ICH8M Chipset

Main Memory
- 1 x 240-pin DDR2 667/ 800 DIMM slot, up to 2GB Non-ECC SDRAM

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 2 pairs

Expansion
- 1 x PCI Slot (Optional)

I/O Interface-Front
- Support 2 x 16 Characters LCD Module, PIO interface (Optional)
- Power status/ HDD status/ LAN status/ Bypass status LED
- 2 x USB 2.0 Ports
- 1 x RJ45 type Console Port
- 1 x software button
- 6 x Copper LAN Ports
- 1 x PCI Expansion (Optional)

I/O Interface-Rear
- 2 x USB 2.0 Ports
- 1 x VGA Port

Devices
- 1 x CompactFlash Socket (Optional)
- 1 x Internal 3.5" HDD bay
- 1 x SATA-DOM device space

Power Input
- 100W ATX Power supply

Dimensions
- Chassis Dimension: 426mm x 238mm x 44mm
- Carton Dimension: 556mm x 384mm x 185 mm

Weight
- Without Packing: 5.6kg
- With Packing: 8kg

Certifications
- CE approval
- FCC Class A

Ordering Information

Barebone
- **NSA 1110 (P/N: 10S00111000X0)**
  Intel® Atom™ D410 Single Core 1.66GHz Processor, 1 DDR2 memory slot, 6 Gigabit LAN ports with two pairs bypass, VGA, USB port, w/o LCM
- **NSA 1110A (P/N: 10S00111001X0)**
  Intel® Atom™ D510 Dual Core 1.66GHz Processor, 1 DDR2 memory slot, 6 Gigabit LAN ports with two pairs bypass, VGA, USB port, w/o LCM
- **NSA 1110-C4 (P/N: 10S00111002X0)**
  Intel® Atom™ D410 Single Core 1.66GHz Processor, 1 DDR2 memory slot, 4 Gigabit LAN ports with two pairs bypass, VGA, USB port, w/o LCM
- **NSA 1110A-C4 (P/N: 10S00111003X0)**
  Intel® Atom™ D510 Dual Core 1.66GHz Processor, 1 DDR2 memory slot, 4 Gigabit LAN ports with two pairs bypass, VGA, USB port, w/o LCM

Options
- **NSA 1110/ NSA 1110A LCM & MEMBRANE (P/N: 88S00111000X0)**
- **NSA 1110-C4/ NSA 1110A-C4 LCM & MEMBRANE (P/N: 88S00111001X0)**

NSA 1120

Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8GHz Processor

1U Rackmount with 6 PCIe GbE LAN Ports

Main Features

- 1U Rackmount Network Platform
- Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8GHz Processor
- Support DDR3/ 800 Memory, up to 2GB
- 6x GbE LAN Ports
- Support LAN Bypass
- Internal one 3.5" HDD Bay/ two 2.5" HDD Bay (Optional)
- Support LCD Module (Optional)

Specifications

Main Board
- NSB 1120
- Support Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8GHz Processor
- Intel® ICH8M Chipset

Main Memory
- 1 x 204-pin DDR3 800 SO-DIMM slot, up to 2GB Non-ECC SDRAM

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 2 pairs

Expansion
- 1 x PCI Slot (Optional)

I/O Interface-Front
- Support 2 x 16 Characters LCD Module, PIO interface (Optional)
- Power status/ HDD status/ LAN status/ Bypass status LEDs
- 2 x USB 2.0 Ports
- 1 x RJ45 type Console Port
- 1 x software button
- 6 x Copper LAN Ports
- 1 x PCI Expansion (Optional)

I/O Interface-Rear
- 2 x USB 2.0 Ports
- 1 x VGA Port

Devices
- 1 x CompactFlash Socket (Optional)
- 1 x Internal 3.5" HDD bay
- 1 x SATA-DOM device space

Power Input
- 100W ATX Power supply

Dimensions
- Chassis Dimension: 426mm x 238mm x 44mm
- Carton Dimension: 556mm x 384mm x 185 mm

Weight
- Without Packing: 5.6kg
- With Packing: 8kg

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone
- **NSA 1120 (P/N: 10S00112000X0)**
  Intel® Atom™ D425 Single Core 1.8 GHz Processor, 1 DDR3 memory slot, 6 Gigabit LAN ports with two pairs bypass, VGA, USB port, w/o LCM
- **NSA 1120A (P/N: 10S00112001X0)**
  Intel® Atom™ D525 Dual Core 1.8 GHz Processor, 1 DDR3 memory slot, 6 Gigabit LAN ports with two pairs bypass, VGA, USB port, w/o LCM
- **NSA 1120-C4 (P/N: 10S00112002X0)**
  Intel® Atom™ D425 Single Core 1.8 GHz Processor, 1 DDR3 memory slot, 4 Gigabit LAN ports with two pairs bypass, VGA, USB port, w/o LCM
- **NSA 1120A-C4 (P/N: 10S00112003X0)**
  Intel® Atom™ D525 Dual Core 1.8 GHz Processor, 1 DDR3 memory slot, 4 Gigabit LAN ports with two pairs bypass, VGA, USB port, w/o LCM

Options
- **NSA 1120/ NSA 1120A LCM & MEMBRANE (P/N: 88S00112000X0)**
- **NSA 1120-C4/ NSA 1120A-C4 LCM & MEMBRANE (P/N: 88S0011201X0)**

NSA 3110

Intel® Core™ 2 Quad/ Core™ 2 Duo/ Pentium® Dual-Core/ Celeron®
1U Rackmount with 8 PCIe GbE LAN

Main Features

- 1U Rackmount Network platform
- Supports Intel® Core™ 2 Quad/ Core™ 2 Duo/ Pentium® Dual Core/ Celeron® Processor
- Supports DDR3 1066 Memory, up to 4GB
- 8 x GbE LAN ports
- One PCIe 8 x Expansion
- Internal one 3.5" HDD Bay/ two 2.5" HDD Bay (Optional)
- Support LCD Module (Optional)

Specifications

Main Board
- NSB 3110
- Support Intel® Core™ 2 Quad/ Core™ 2 Duo/ Pentium® Dual-Core/ Celeron® Processors, LGA775 socket
- Support 800/ 1066/ 1333 MHz FSB
- Intel® G41 and ICH7R Chipset

Main Memory
- 2 x 240-pin DDR3 1066 DIMM slots, up to 4GB Non-ECC SDRAM

LAN Features
- LAN Chipset: Intel® 82574L
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 4 pairs

Expansion
- 1 x PCIe x8 Slot
- 1 x Mini-PCI Slot

I/O Interface-Front
- Support 2 x 16 Characters LCD module, PIO interface (Optional)
- HDD status/ Power/ LAN status/ Bypass status LEDs
- 2 x USB 2.0 ports
- 1 x RJ45 type Console port
- 1 x Software button
- 8 x Copper LAN ports

I/O Interface-Rear
- 1 x Expansion slot
- 1 x VGA port

Devices
- 1 x On-board CompactFlash Socket
- 1 x Internal 3.5" HDD bay

Power Input
- 200W ATX Power Supply

Dimensions
- Chassis Dimension: 426mm x 365mm x 44mm
- Carton Dimension: 560mm x 570mm x 190mm

Weight
- Without packing: 6.5kg
- With packing: 10kg

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone
- **NSA 3110 (P/N: 10S00311000X0)**
  Support Intel® Core™ 2 Quad/ Core™ 2 Duo/ Pentium® Dual-Core/ Celeron®, 2 DDR3 memory slots, 8 Gigabit LAN ports, Compactflash Socket, VGA, USB port, One PCIe x8 Expansion slot, w/o LCM
- **NSA 3110-C4 (P/N: 10S00311003X0)**
  Support Intel® Core™ 2 Quad/ Core™ 2 Duo/ Pentium® Dual-Core/ Celeron®, 2 DDR3 memory slots, 4 Gigabit LAN ports, Compactflash Socket, VGA, USB port, One PCIe x8 Expansion slot, w/o LCM

Options
- **NSA 3110 LCM & MEMBRANE (P/N: 88S00311000X0)**
- **NSA 3110-C4 LCM & MEMBRANE (P/N: 88S00311001X0)**

NSA 3120-C6F2

Intel® Xeon® Processor E3-1125C, BGA Type,
1U Rackmount with 8 PCIe GbE LAN Ports

Coming Soon

Main Features

- Intel® Xeon® processor E3-1125C to Intel® Celeron® processor 725C
- Support two DDR3 1333/ 1600 memory, up to 16GB
- Support one PCIe x8 expansion
- Internal one 3.5" HDD Bay/ two 2.5" HDD Bay (Optional)

Specifications

Main Board
- NSB 3120
- Intel® Xeon® processor E3-1125C to Intel® Celeron® processor 725C
- Intel® Communications Chipset 8910 PCH

Main Memory
- 2 x 240-pin DDR3 1333/ 1600MHz DIMM sockets, up to 16GB non-ECC SDRAM

LAN Features
- LAN chip: Intel® i210
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 4pairs for copper ports
- 8 x copper ports (Default)
- 6 x copper ports + 2 fiber ports (Optional)

Expansion
- 1 x PCIe x8 slot

I/O Interface-Front
- Power status/ HDD status/ LAN status/ Bypass status LEDs (copper only)
- 2 x USB 2.0 ports
- 1 x RJ45 type console port
- 8 x copper LAN ports (Default)

I/O Interface-Rear
- 1 x PCIe x8 expansion slot
- 2 x USB 2.0 ports
- 1 x VGA port

Devices
- 1 x On-board CFast socket (Default)
- 1 x Internal 3.5" HDD Bay/ Two 2.5" HDD Bay (Optional)
- 1 x SATA-DOM device space (Optional)

Power Input
- 250W ATX power supply

Dimensions
- Chassis dimension: 426mm x 365mm x 44mm
- Carton dimension: 560mm x 570mm x 190mm

Weight
- Without packing: 6.5Kg
- With packing: 10Kg

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone
- **NSA 3120-C8 (P/N: TBD)**
  Intel® Xeon® processor E3-1125C , 2 DDR3 memory slots, 8 copper LAN ports, CFast socket , USB ports, VGA port, PCIe x8 expansion slot, w/o LCM
- **NSA 3120-C4F4 (P/N: TBD)**
  Intel® Xeon® processor E3-1125C, 2 DDR3 memory slots, 4 copper LAN ports + 4 fiber LAN ports, CFast socket, USB ports, VGA port, PCIe x8 expansion slot, w/o LCM
- **NSA 3120-C6F2 (P/N: TBD)**
  Intel® Xeon® processor E3-1125C, 2 DDR3 memory slots, 6 copper LAN ports+ 2 Fiber LAN ports, CFast socket, USB ports, PCIe x8 expansion slot, w/o LCM

NSA 3130

Intel® 2nd Generation Core™ Processor Family 1U Rackmount with 8PCIe GbE LAN

Main Features

- 1U Rackmount Network Platform
- 2nd Generation Intel® Core™ Processor Family
- Support DDR3 1333/ 1600 Memory, up to 8GB
- 8x GbE LAN Ports
- Support One PCIe x8 Expansion
- Internal One 3.5" HDD Bay/ Two 2.5" HDD Bay (Optional)

Specifications

Main Board
- NSB 3130
- Support 2nd generation Intel® Core™ processor family
- Intel® H61

Main Memory
- 2 x 240-pin DDR3 1333/ 1600 MHz DIMM slots, up to 8GB ECC/ non-ECC SDRAM

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 4 pairs

Expansion
- 1x PCIe x8 Slot

I/O Interface-Front
- Power status/ HDD status/ LAN status/ bypass status LEDs
- 2 x USB 2.0 ports
- 1 x RJ45 type console port
- 8 x Copper LAN ports

I/O Interface-Rear
- 1 x expansion slot
- 2 x USB 2.0 ports
- 1 x VGA port

Devices
- 1 x internal 3.5" HDD bay/ Two 2.5" HDD Bay (Optional)
- 1 x SATA-DOM device space
- 1 x CFast socket/ 1 x CompactFlash Socket (Optional)

Power Input
- 200W ATX power supply

Dimensions
- Chassis Dimension: 426mm x 365mm x 44mm
- Carton Dimension: 560mm x 570mm x 190mm

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone

- **NSA 3130 (P/N: 10S00313000X1)**
  Support 2nd generation Intel® Core™ processor family, 2 DDR3 memory slots, 8 PCIe GbE LAN ports, CFast socket, USB ports, VGA port, one PCIe x8 expansion slot, w/o LCM

Option

- **NSA 3130-C4 (P/N: 10S00313001X1)**
  Support 2nd generation Intel® Core™ processor family, 2 DDR3 memory slots, 4 GbE LAN ports, CFast socket, USB ports, VGA port, one PCIe x8 expansion slot, w/o LCM

NSA 3111

Intel® Core™ 2 Duo/ Pentium® Dual-Core/ Celeron®
1U Rackmount with 4/ 6+8 PCIe GbE LAN

NSA 3111-C6

NSA 3111-C4

Main Features

- 1U Rackmount Network Platform
- Supports Intel® Core™ 2 Duo/ Pentium® Dual Core/ Celeron® Processor
- Supports DDR2 667/ 800 Memory, up to 4GB
- 4/ 6 GbE LAN Ports
- Support one LAN Module, one PCI Expansion Slot
- Internal one 2.5" HDD Bay

Specifications

Main Board
- NSB 3111
- Support Intel® Core™ 2 Duo/ Pentium® Dual-Core/ Celeron® Processors, LGA775 socket
- Support 800/ 1066/ 1333 MHz FSB
- Intel® G41 and ICH7R Chipset

Main Memory
- 2 x 240-pin DDR2 667/ 800 DIMM slots, up to 4GB Non-ECC SDRAM

LAN Features
- Lan Chipset: Intel® 82574L
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 2 pairs

Expansion
- 1 x PCI Slot
- 1 x Mini-PCI Slot

I/O Interface-Front
- HDD status/ Power/ GPIO status LEDs
- 2 x USB 2.0 ports
- 1 x RJ45 type Console port
- 1 x software button
- 4~6 Copper LAN ports
- 1 x LAN Module Support (Optional)

I/O Interface-Rear
- 1 x Expansion slot

Devices
- 1 x on-board CompactFlash socket
- 1 x Internal 2.5" HDD bay
- 1 x Internal 44 pin IDE interface

Power Input
- 200W ATX Power Supply

Dimensions
- Chassis Dimension: 426mm x 450mm x 44mm
- Carton Dimension: 560mm x 640mm x 200mm

Certifications
- CE approval
- FCC Class A

Ordering Information

Barebone

- **NSA 3111-C6 (P/N: 10S00311101X0)**
  Support Intel® Core™ 2 Duo/ Pentium® Dual-Core/ Celeron®, 2 DDR2 memory slots, 6 Gigabit LAN ports, Compactflash Socket, VGA, USB port, One PCI Expansion slot, One LAN Modular, w/o LCM & Membrane

- **NSA 3111-C4 (P/N: 10S00311100X0)**
  Support Intel® Core™ 2 Duo/ Pentium® Dual-Core/ Celeron®, 2 DDR2 memory slots, 4 Gigabit LAN ports, Compactflash Socket, VGA, USB port, One PCI Expansion slot, One LAN Modular, w/o LCM & Membrane

	Controller	Interface Type	Port Number	Bypass / Segment
NSK 5175-C8	Intel® 82575EB	PCIe x8	8 Copper	Dual latch / 2
NSK5175-F8	Intel® 82575EB	PCIe x8	8 SFP	None

DNA 110/110A

Desktop Intel® Atom™ E620 CPU with 3 GbE LAN

Main Features

- Desktop Network Platform
- On-board Intel® Atom™ E620 CPU
- Intel® EG20T Chipset
- On-board 512MB DDR2 667/ 800 Memory, up to 1GB
- Support 3 GbE LAN Ports
- One Mini-PCIe Expansion for WiFi
- One SATA Dom/ One SATA 2.5"SSD (Optional)
- Fanless Design

Specifications

Main Board
- DNB 110
- Support Intel® Atom™ E600 series processor
- Intel® EG20T chipset

Main Memory
- On-board 512MB/ 1GB DDR2 667/ 800 memory

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000 link speed

Expansion
- 1 x Mini-PCIe Slot

I/O Interface-Front
- 2 x GPIO LEDs

I/O Interface-Rear
- 1 x software reset button
- 1 x RJ45 type console port
- 2 x USB 2.0 ports
- 3 x RJ45 ports
- 2 x hole for wireless antenna

Devices
- 1 x SATA 2.5" SSD space (Optional)
- 1 x SATA-DOM device space (Default)

Power Input
- 40W power adapter

Chassis Dimensions
- Chassis dimension: 179.9mm x 111.9mm x 37.5mm
- Carton dimension: 235mm x 200mm x 100mm

Weight
- Without packing: 1kg
- With packing: 2kg

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone

- **DNA 110 (P/N: 10L00011000X0)**
  Intel® Atom™ E620 processor, on-board 512MB DDR2 667/ 800 memory, 3 Gigabit LAN ports with one Mini-PCIe expansion for Wi-Fi, USB port
- **DNA 110A (P/N: 10L00011002X0)**
  Intel® Atom™ E620 processor, on-board 1GB DDR2 667/ 800 memory, 3 Gigabit LAN ports with one Mini-PCIe expansion for Wi-Fi, USB port

DNA 1110

Desktop Intel® Atom™ D510 Dual Core/ D410 Single Core 1.66GHz Processor with 4 PCIe GbE LAN

Main Features

- Desktop Network Platform
- Intel® Atom™ D510 Dual Core/ D410 Single Core 1.66GHz Processor
- Support DDR2 667/ 800 Memory up to 2GB
- 4x GbE LAN Ports
- Support LAN Bypass
- One PCI Expansion
- On-board CF Socket
- Internal one 2.5" HDD Bay

Specifications

Main Board
- DNB 1110
- On board Intel® Atom™ D510 Dual Core/ D410 Single Core 1.66GHz Processor
- Intel® ICH8M Chipset

Main Memory
- 1 x 240-pin DDR2 667/ 800 DIMM slot, up to 2GB Non-ECC SDRAM

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 1 pair

Expansion
- 1 x PCI Slot
- 1 x Mini-PCI Slot

I/O Interface-Front
- Power status/ HDD status/ LAN status LEDs

I/O Interface-Rear
- 1 x Power button
- 1 x RJ45 type Console port
- 2 x USB 2.0 ports
- 4 x Copper LAN ports
- 1 x PCI Expansion Slot

Devices
- 1 x on-board CompactFlash socket
- 1 x Internal 2.5" HDD bay

Power Input
- 45W Power Adaptor

Dimensions
- Chassis Dimension: 272mm x 195mm x 44mm
- Carton Dimension: 430mm x 300mm x 170mm

Weight
- Without Packing: 2kg
- With Packing: 4kg

Certifications
- CE approval
- FCC Class B
- UL

Ordering Information

Barebone

- **DNA 1110 (P/N: 10L00111000X0)**
  Intel® Atom™ D410 Single Core 1.66GHz Processor, 1 DDR2 memory slot, 4 Gigabit LAN ports with one pair bypass, CompactFlash Socket, VGA, USB port, One Mini-PCI Slot, one PCI expansion slot
- **DNA 1110A (P/N: 10L00111001X0)**
  Intel® Atom™ D510 Dual Core 1.66GHz Processor, 1 DDR2 memory slot, 4 Gigabit LAN ports with one pair bypass, CompactFlash Socket, VGA, USB port, One Mini-PCI Slot, one PCI expansion slot

DNA 1120

Desktop Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8 GHz Processor with 4 PCIe GbE LAN

Main Features

- Desktop Network Platform
- Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8GHz Processor
- Support DDR3 800 Memory up to 2GB
- 4 x GbE LAN Ports
- Support LAN Bypass
- One PCI Expansion
- On-board CF Socket
- Internal one 2.5" HDD Bay

Specifications

Main Board
- DNB 1120
- On board Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8 GHz Processor
- Intel® ICH8M Chipset

Main Memory
- 1 x 204-pin DDR3 800 SO-DIMM slot, up to 2GB Non-ECC SDRAM

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 1 pair

Expansion
- 1 x PCI Slot
- 1 x Mini-PCI Slot
- 1 x PCI-e Slot (Optional)
- 1 x mini-PCIe Slot (Optional)

I/O Interface-Front
- Power status/ HDD status/ LAN status LEDs

I/O Interface-Rear
- 1 x Power button
- 1 x RJ45 type Console port
- 2 x USB 2.0 ports
- 4 x Copper LAN ports
- 1 x PCI Expansion Slot

Devices
- 1 x on-board CompactFlash socket
- 1 x Internal 2.5" HDD bay
- 1 x SATA DOM device

Power Input
- 45W Power Adaptor

Dimensions
- Chassis Dimension: 272mm x 195mm x 44mm
- Carton Dimension: 430mm x 300mm x 170mm

Weight
- Without Packing: 2kg
- With Packing: 4kg

Certifications
- CE approval
- FCC Class B
- UL

Ordering Information

Barebone

- **DNA 1120 (P/N: 10L00112000X0)**
  Intel® Atom™ D425 Single Core 1.8GHz Processor, one DDR3 memory slot, 4 Gigabit LAN ports with one pair bypass, CompactFlash Socket, VGA, USB port, One Mini-PCI Slot, one PCI expansion slot
- **DNA 1120A (P/N: 10L00112001X0)**
  Intel® Atom™ D525 Dual Core 1.8GHz Processor, one DDR3 memory slot, 4 Gigabit LAN ports with one pair bypass, CompactFlash Socket, VGA, USB port, One Mini-PCI Slot, one PCI expansion slot
- **DNA 1120E (P/N: 10L00112002X0)**
  Intel® Atom™ D425 Single Core 1.8GHz Processor, one DDR3 memory slot, 4 Gigabit LAN ports with one pair bypass, CompactFlash socket, VGA, USB port, one mini-PCIe Slot, one PCIe expansion slot
- **DNA 1120AE (P/N: 10L00112003X0)**
  Intel® Atom™ D525 Dual Core 1.8GHz Processor, one DDR3 memory slot, 4 Gigabit LAN ports with one pair bypass, CompactFlash socket, VGA, USB port, one mini-PCIe slot, one PCIe expansion slot

DNA 2120

Desktop Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8GHz Processor with 6 PCIe GbE LAN Ports

Main Features

- Desktop Network Platform
- Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8GHz Processor
- 2GB on board DDR3 800 Memory, and one DDR3 DO-DIMM up to 4GB
- 6 x Intel® 82583V GbE LAN Ports
- Support LAN Bypass
- Internal one 2.5" HDD Bay/ one SATA DOM (Optional)
- Fanless design

Specifications

Main Board
- DNB 2120
- Support Intel® Atom™ D525 Dual Core/ D425 Single Core 1.8GHz Processor
- Intel® ICH8M Chipset

Main Memory
- Onboard 2GB DDR3 800 Memory (Default)
- 1 x 204-pin DDR3 800 SO-DIMM slot, up to 4GB Non-ECC SDRAM

LAN Features
- LAN Chip: Intel® 82583V
- Support 10/ 100/ 1000 link speed
- LAN Bypass: 1 pairs

Expansion
- 1 Mini-Pcie Slot (Optional)

I/O Interface-Front
- Power status/ LAN status/ Bypass status LED

I/O Interface-Rear
- 1 x Power button
- 1 x RJ45 type Console Port
- 2 x USB 2.0 Ports
- 6 x Copper LAN Port
- 2 x holes for Wireless Antenna

Devices
- 1 x CompactFlash Socket (Optional)
- 1 x 2.5" HDD bay
- 1 x SATA-DOM device space

Power Input
- 40W Power Adapter

Dimensions
- Chassis Dimension: 250mm x 194mm x 40mm
- Carton Dimension: 430mm x 300mm x 170mm

Weight
- Without Packing: 2kg
- With Packing: 3.3kg

Certifications
- CE approval
- FCC Class B
- UL

Ordering Information

Barebone

- **DNA 2120 (P/N: 10L00212000X0)**
  Intel® Atom™ D425 Single Core 1.8 GHz Processor, 1 DDR3 SO-DIMM memory slot, 6 Gigabit LAN ports with two pairs bypass, USB port
- **DNA 2120A (P/N: 10L00212001X0)**
  Intel® Atom™ D525 Dual Core 1.8 GHz Processor, 1 DDR3 SO-DIMM memory slot, 6 Gigabit LAN ports with two pairs bypass, USB port

DNA 2610

Freescale P1010 QorIQ Processor, 533MHz, Desktop with 2 Giga LAN Ports and 4 Giga Switch Ports

Main Features

- Freescale P1010 QorIQ Processor, 533MHz Processor
- On board DDR3 1GB Memory
- Support one Mini-PCIe Expansion
- 2 Giga LAN ports and 4 Giga switch ports
- On board 256MB NAND Flash
- One LAN port support PoE function

Specifications

Main Board
- DNB 2610
- Freescale P1010 QorIQ Processor, 533MHz Processor
- RTL8367VB-CG GbE Switch

Main Memory
- DDR3 1GB Memory

LAN Features
- Support 10/ 100/ 1000 link speed
- 2 x Giga Lan ports
- 4 x Giga Switch ports

Expansion
- 1 x Mini-PCIe Slot

I/O Interface-Front
- Power/ Status/ Mini PCIe status LEDs

I/O Interface-Rear
- 1 x USB 2.0 port
- 1 x DB9 type console port
- 2 x Copper LAN ports
- 4 x Giga Switch ports
- 1 x Power input

Devices
- 1 x Mini-PCIe slot

Power Input
- 40W Power Adaptor

Dimensions
- Chassis Dimension: 230mm x 187mm x 30mm
- Carton Dimension: 290mm x 283mm x 150mm

Weight
- Without Packing: 1.2kg
- With Packing: 2kg

Certifications
- CE approval
- FCC Class A

Ordering Information

Barebone

- **DNA2610 (P/N: 10L00261000X1)**
  Freescale P1010 QorIQ Processor, 533MHz Processor , 1G DDR3 memory , 2 LAN ports, 4 Giga Switch ports, 1 USB port, 1 console port, 1 Mini-PCIe expansion slot

DNA 2620

Freescale P1020 QorIQ Processor, 800MHz, Desktop with 2 GbE LAN ports and 4 Giga Switch ports

Main Features

- Freescale P1020 QorIQ Processor, 800MHz Processor
- On board DDR3 1GB Memory
- Support one Mini-PCIe Expansion
- 2 Giga LAN ports and 4 Giga switch ports
- On board 256MB NAND Flash
- One LAN port support POE function

Specifications

Main Board
- DNB 2620
- Freescale P1020 QorIQ Processor, 800MHz Processor
- Vitesse GbE L2 Switch VSC7385

Main Memory
- DDR3 1GB Memory

LAN Features
- Support 10/ 100/ 1000 link speed
- 2 x Giga Lan ports
- 4 x Giga Switch ports

Expansion
- 1 x Mini-PCIe Slot

I/O Interface-Front
- Power/ Status/ Mini-PCIe status LEDs

I/O Interface-Rear
- 1 x USB 2.0 port
- 1 x DB9 type console port
- 2 x Copper LAN ports
- 4 x Giga Switch ports
- 1 x Power input

Devices
- 1 x Mini-PCIe slot

Power Input
- 40W Power Adaptor

Dimensions
- Chassis Dimension: 230mm x 187mm x 30mm
- Carton Dimension: 290mm x 283mm x 150mm

Weight
- Without Packing: 1.2kg
- With Packing: 2kg

Certifications
- CE approval
- FCC Class A

Ordering Information

Barebone

- **DNA 2620 (P/N: 10L00262000X1)**
  Freescale P1020 QorIQ Processor, 800MHz Processor , 1G DDR3 memory , 2 LAN ports, 4 Giga Switch ports, 1 USB port, 1 console port, 1 Mini-PCIe x1 expansion slot

ISA 1110

Intel® Atom™ E620 600 MHz DIN Rail Fanless System with 512MB Memory on Board

Main Features

- DIN Rail System
- On-board Intel® Atom™ E620 CPU
- Intel® EG20T chipset
- On-board 512MB DDR2 800 memory
- Support 2 GbE LAN ports
- Support one SATA-DOM or One SATA 2.5”SSD(Optional)
- Fanless design System

Specifications

Main Board
- ISB 1110
- Support Intel® Atom™ E620 series processor
- Intel® EG20T chipset

Main Memory
- On-board 512MB DDR2 800 memory

LAN Features
- LAN Chip: Intel® 82574L
- Support 10/ 100/ 1000 link speed

Expansion
- 1 x Mini-PCIe Slot

I/O Interface-Front
- 2 x USB ports
- 2 x RJ45 GbE LAN ports
- 1 x DB9 Serial port
- Power/ HDD/ GPIO/ LEDs

I/O Interface-Rear
- 1 x DB15 VGA port
- 1 x DB15 male connector for 8CH General Purpose Input
- 1 x DB15 male connector for 8CH General Purpose Output
- 3-pin DC input, support 12V DC input and 24V DC input
- 1 x Power on/ off switch

Devices
- 1 x SATA-DOM device space (Default)
- 1 x SATA 2.5” SSD space(Optional)

Dimensions
- Chassis Dimension: 59mm x 140mm x167mm

Environment
- Operating temperature:
  Ambient with air flow: -5°C ~ 55°C
  (According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C ~ 80°C
- Relative humidity: 10% ~ 93% (non-condensing)
- Shock protection: 20G, half sine, 11ms, IEC60068-2-27
- Vibration protection
  Random: 0.3Grms @5~500 Hz according to IEC68-2-64
  Sinusoidal: 0.3Grms @5~500 Hz according to IEC68-2-6

Certifications
- CE approval
- FCC Class A

Ordering Information

Barebone
- **ISA 1110(P/N:TBD)**
  Intel® Atom™ E620 Processor, On-board 512MB DDR2 800MHZ memory, 2 Gigabit LAN ports, USB port,1 VGA port
- **12V, 60W AC/DC power adapter (P/N: 7400060014X00)**
- **Aluminum DIN Rail mounting kit (P/N: 88J00009001X0)**
- **Wall mount kit (P/N: 88J00009002X0)**

ISA 1610

Freescale P1010 QorIQ Processor, 533MHz, Desktop with 2 GbE LAN ports and 4 Giga Switch ports

Coming Soon

Main Features

- Freescale P1010 QorIQ Processor, 533MHz Processor
- On board DDR3 1GB Memory
- Support one Mini-PCIe Expansion
- 2 Giga LAN ports and 4 Giga switch ports
- On board 256MB NAND Flash
- One LAN port support POE function

Specifications

Main Board
- ISB 2610
- Freescale P1010 QorIQ Processor, 533MHz Processor
- Marvell 88E6176

Main Memory
- DDR3 1GB Memory

LAN Features
- Support 10/ 100/ 1000 link speed
- 2 x Giga Lan ports
- 4 x Giga Switch ports

Expansion
- 1 x Mini-PCIe Slot

I/O Interface-Front
- Power status/ HDD status/ Mini PCIe status LEDs
- 1 x USB 2.0 port
- 2 x Copper LAN ports
- 4 x Giga Switch ports

I/O Interface-Bottom
- 1 x DB9 type console port
- 1 x Power on/ off switch
- 3-pin DC input, support 12V DC input and 24V DC input

Devices
- 1 x Mini-PCIe slot

Dimensions
- Chassis Dimension: 59mm x 140mm x167mm
- Carton Dimension: TBD

Weight
- Without Packing: TBD
- With Packing: TBD

Certifications
- CE approval
- FCC Class A
- UL

Ordering Information

Barebone

- **ISA 1610 (P/N: TBD)**

  Freescale P1010 QorIQ Processor, 533MHz Processor , 1G DDR3 memory , 2 LAN ports, 4 Giga Switch ports , 2 USB ports, 1 console port, 1 Mini-PCIe expansion slot

ISA 2120

Intel® Atom™ D510 Fanless In-Vehicle Computer with three GigaLAN

Main Features

- Build-in Intel® Atom™ D510 Dual Core 1.66GHz processor
- Support three Ethernet LAN Ports
- Dual Sim card slots available for vary carriers
- Variety Wireless Communication (WLAN/BT/WWAN)
- Dual VGA output (clone mode)
- PCI-104 and mini card expansion interface
- 8~60V wide range DC power input
- Smarter ignition power on/ off, delay-time and low voltage protection
- Rugged fanless design to meet MIL standard

Specifications

CPU
- Intel® Atom™ D510 Dual Core 1.66GHz

Main Chipset
- ICH8M

Memory
- One 200-pin DDR2 667/ 800MHz SO-DIMM slot (up to 2GB)

Expansion
- 1 x Mini-PCIe socket (PCIe + USB) for WLAN option
- 1 x Mini-PCIe socket (USB) x 1 for WWAN option
- 1 x Bluetooth module for option
- 1 x Bundle GPS module or optional GPS with dead reckoning
- 1 x PCI-104

I/O Interface-Front
- 1 x Line-out, 1 x Mic-in
- 1 x System reset button
- 2 x SIM card sockets
- 2 x USB 2.0 host type A connector
- 1 x Power button
- 4 x Antenna hole reserved for SMA-type antenna connector (WWAN/ WLAN/ BT)
- 4 x LED's for power, storage, WLAN/ WWAN and GPIO

I/O Interface-Rear
- 1 x 8~60VDC input with ignition and 23W typical power consumption
- 1 x 5V/ 1A and 12V/ 1A DC output, SMBus
- 2 x DB15 VGA (clone mode)
- 2 x USB 2.0 host type A connector
- 1 x Line-out, 1 x Mic-in
- 3 x RJ45 with LED's for 10/ 100/ 1000Mbps Ethernet (optional M12 connectors x 2)
- 2 x DB9 RS-232 (COM1, COM2)
- 1 x DB9 RS-485 (COM3)
- 1 x DB26 LVDS interface with 12V and USB 2.0
- 1 x SMA antenna hole for GPS
- 1 x DB9 FEMALE CONNECTOR FOR 4GPI and 4GPO
- 1 x FUSE

Expandable Storage
- 1 x 2.5" SATA II HDD Bay or SATA DOM x 1

Power Management
- Selectable boot-up & shut-down voltage for low power protection by software
- Setting 8-level on/ off delay time by software
- Status of ignition and low voltage status can be detected by software
- Support S3/ S4 suspend mode

Ordering Information

- **ISA 2120 (P/N: TBD)**

ISA 3120

Intel® Atom™ D525 Fanless Railway Computer with IP65 and EN50155 Compliance

Main Features

- Built-in Intel® Atom™ D525 Dual Core 1.8GHz processor
- Fanless and rugged design
- Support ignition signal for delay-time control
- Easy maintenance
- Rich I/O interface with secure lock
- Removable 2.5" SSD tray
- Isolation RS-232/ 422/ 485 and GPIO
- DC power input with isolated protection
- Compliant with IP65 design
- Certified by EN50155

Specifications

CPU
- Intel® Atom™ D525 Dual Core 1.8GHz

Main Chipset
- Intel® ICH8M chipsets

Memory
- 1GB DDR3 1333MHz SODIMM (up to 4GB)

Expansion
- 1 x Mini-PCIe socket (PCIe + USB) for WLAN option
- 1 x Mini-PCIe socket (USB) for 3.5G module option
- 1 x GPS module

Front I/O Interface
- 1 x DVI-I connector with DVI-D and VGA output
- 1 x 26-pin circular connector in support of RS232/ 422/ 485 with isolation, 4-channel digital input and 4-channel digital output
- 1 x USB 2.0 with M12 connector
- 1 x Mic-in & 1 x Line-out
- 3 x 10/ 100 Ethernet with M12 connector
- Wireless communication
  1 x External accessible SIM card socket
  3 x Antenna holes for WWAN/ WLAN/ GPS
- 4 x LED for power, SSD, WWAN and WLAN
- DC Input
  nROK3000-A: 24V with 500V isolated (range: 16.8V ~ 30V)
  nROK3000-F: 110V with 1.5KV isolation (range: 66V ~ 154V)

Rear I/O Interface
- 1 x 2.5" accessible SATA SSD tray
- 2 x USB 2.0

Expandable Storage
- 1 x 2.5" SATA SSD tray
- 1 x CFast slot with protection cover

Power Management
- Selectable boot-up & shut-down voltage for low power protection by software
- Setting 8-level on/off delay time by software
- Status of ignition and low voltage status can be detected by software

System Dimension
- 260mm (W) x 178mm (D) x 70mm (H) (10.24"x 7"x 2.76")

Construction
- Aluminum enclosure with fanless design

Environment
- Operating temperatures
  Ambient with air: -40°C to 70 °C (EN50155 Class TX)
- Storage temperatures: -40°C to 80°C
- Damp heat test: 55°C, 95% RH (non-operating, EN 50155)
- Relative humidity: 0% to 90% (non-condensing)
- Vibration (random):
  Compliance with EN61373 Category 1 Class B
- Shock:
  Compliance with EN61373 Category 1 Class B

Ingress Protection
- IP65 rating

Standards/ Certifications
- CE
- FCC Class A
- Compliance with EN50155

Ordering Information

- **ISA 3120 (P/N: TBD)**

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