



**Intelligent
IT/OT
Solutions**

About **Axiomtek**

Axiomtek has experienced extraordinary growth for more than 30 years. Fueled by our passionate employees, we have leveraged decades of experience to create a vast portfolio of value-added solutions for our valued customers. We are committed to making long term investments to secure our place at the top of the industrial PC industry. This commitment has yielded a growing team of experts including software, hardware, middleware and application experts, that are second to none!

Design & Manufacturing Services

ODM/OEM Services

Axiomtek has been providing high-quality and fast DMS to its customers. With tremendous experience, capability, and R&D resources to make any DMS project a success, Axiomtek has been an extremely versatile turnkey manufacturer able to turn various concepts and ideas into real network solutions. The DMS from Axiomtek can also facilitate customization from custom bezels and logos to the design and manufacturing of new CPU boards and systems based on different specifications.

Off-the-Shelf

- Desktop/1U/2U
- High-performance Intel® processors
- Up to 25G/40G/100G multi-port
- Fiber/copper interfaces

Rebranding

- Printing/labeling/ logo
- BIOS setting
- Storage/memory capacity
- CPU version

Project-Based ODM

- Design services tailored to customer requirements
- Electric circuit design
- Mechanical and ID design
- EMI/EMC and safety certifications



5G On the Rise

Boundless Connectivity for Intelligent Automation and Beyond

Thanks to the faster and more cost-effective deployment of 5G networks, global IIoT expansion is gaining further momentum. 5G will form the foundation for smart cities, making a profound impact on communications between vehicles, and between vehicles and roadside infrastructure. Intelligent factories, distribution centers, container ports will associate workers with robots, creating collaborative workflows with the adaptability to different tasks.

According to the GSM Association (2018), the mobile industry has demonstrated its ability to transform society through 2G, 3G and 4G over the past 30 years. 5G will build on these successes to deliver the networks and platforms to support existing and new services, with new business models and use cases that are unknown today. Continuously driven by technologies like cloud, edge computing and artificial intelligence (AI), 5G is expected to enable new groundbreaking use cases in vertical industries and accelerate the adoption of Industry 4.0.

Expanding Possibilities

Stay Connected from Edge to Cloud with Axiomtek

The Industrial IoT (Internet of Things) is becoming the key to success in the coming decade. Along with the maturity of affordable technologies have come a variety of IIoT applications and business models that are shaping a bright, exciting future where everything can connect and communicate with each other.

Axiomtek, with its innovative networking platform solutions that link everything from the edge to the cloud, is striving to make this IIoT future a reality. By offering a complete network appliance portfolio and flexible COTS customization services encompassing firewall, routing, VPN, vCPE, gateway, and edge intelligence, Axiomtek is thrilled to work with its customers on IIoT innovation to make the world better connected than ever before.

IT/OT Cybersecurity Convergence

While IoT brings tremendous convenience and valuable insights to help optimize business operations, fast-growing numbers of connected devices also create possible vulnerabilities where data could be stolen or misused. As enterprises strive to regulate their increasingly complex networks, the ability to ensure cybersecurity compliance and data protection has never been more important. Axiomtek provides a wide range of network appliances featuring low power, fanless and slim form factor design as well as noiseless operation, delivering exceptional performance for versatile security gateway applications.

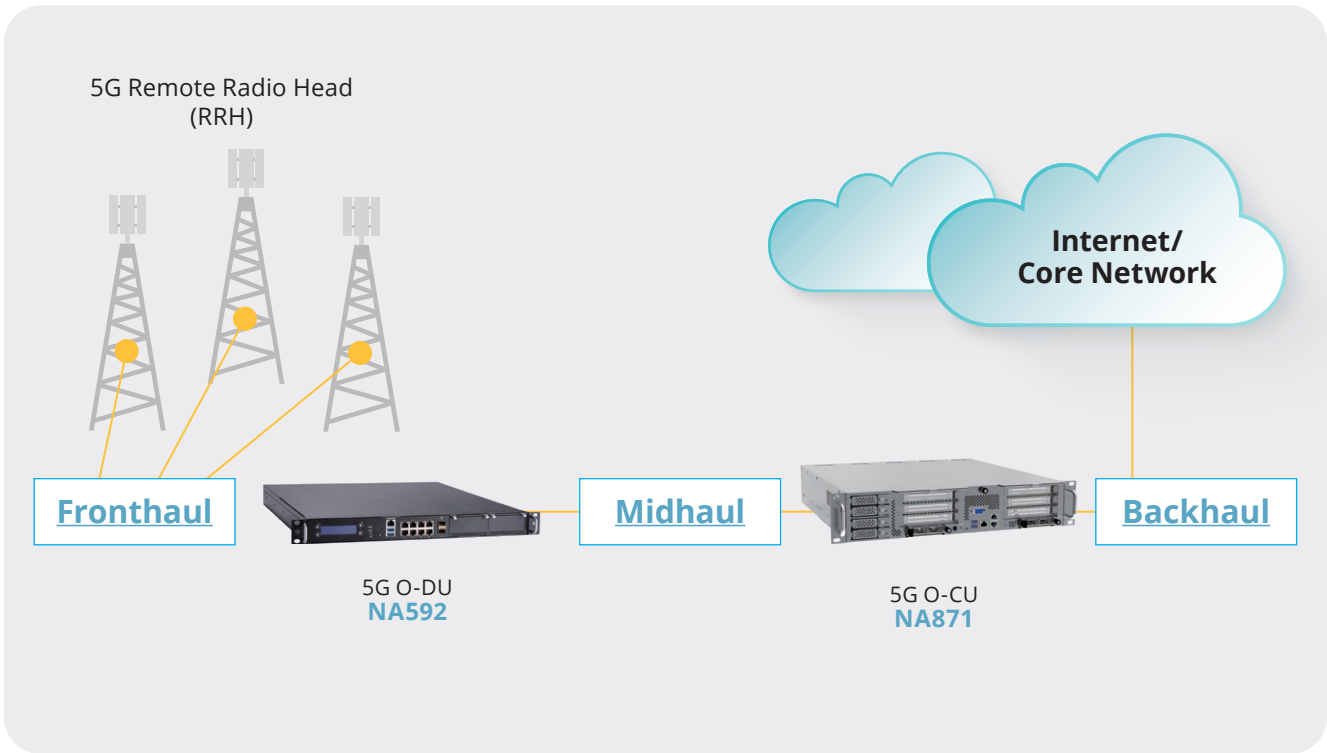


Increasing Concerns for Operational Technology (OT) Cybersecurity

IT Cybersecurity

5G and OpenRAN

Open Radio Access Network (Open RAN) is focused on the development and delivery of radio access network (RAN) equipment based on open hardware, software, and interfaces for cellular wireless networks. This move to interoperable, open technologies will allow for faster and more cost-effective deployment of 5G networks, which draw on innovative products and solutions from a broad ecosystem of vendors.



Recommended Models

NA592



1U Rackmount Network Appliance Platform

- LGA1200 socket 10th gen Intel® Core™/Xeon® W-1200 processor (Comet Lake)
- Two expandable LAN modules supported 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Suitable for network security, cloud computing and data centers applications



EN60950



a-RING



LAN Bypass



IPMI



NIC Module



Redundant Power



NA871



2U Rackmount Network Appliance Platform

- Dual CPU sockets for 4th gen Intel® Xeon® Scalable processors with up to 60 powerful cores (Sapphire Rapids)
- Flexible configurations for various edge computing (GPU/AI/FPGA)
- Short chassis for edge deployment



EN60950



a-RING



LAN Bypass



IPMI



NIC Module



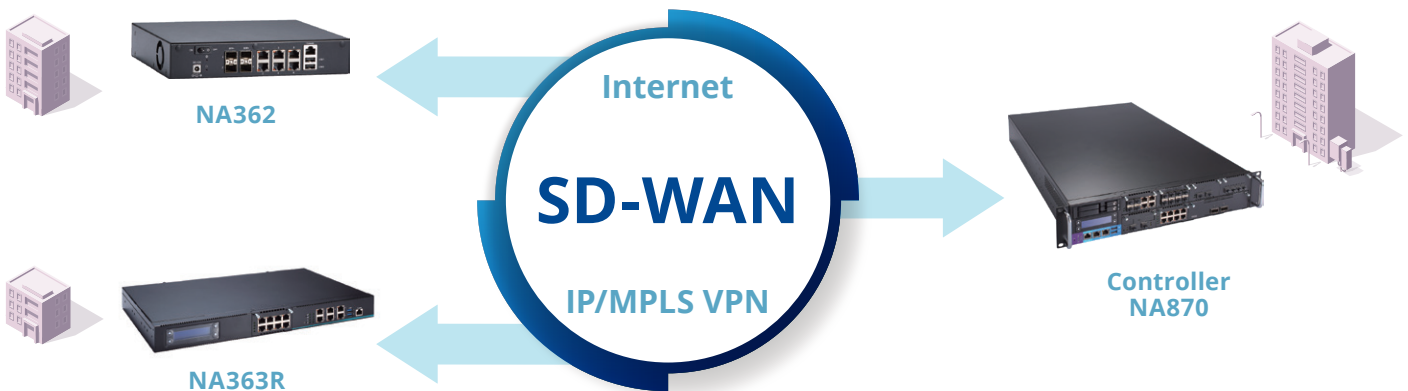
Redundant Power

Software-Defined WAN (SD-WAN)

The Software-Defined WAN (SD-WAN) leverages software defined networking (SDN) technology applied to Wide Area Network (WAN) connections, providing a networking foundation that is much easier and more cost-effective to manage than legacy WANs. Our network appliance products help simplify network setup and management in an automated and responsive approach in real time.

Branches / Remote Sites



Data Centers / Central Office



- SD-Security
- SD-WAN
- CGNAT
- IPS/AV
- NGFW
- Routing APP ID

- Self-care Portal
- EMS/NMS
- Performance Management
- SD-WAN Controller

Recommended Models

NA362  

Desktop Network Appliance Platform

- Intel® Atom® processor C3338/C3558/C3758 (Denverton)
- Six GbE RJ-45 and 4 SFP+ ports (Intel® i210)
- Certified by flexiWAN for SD-WAN

NA363R 

1U Rackmount Network Appliance Platform

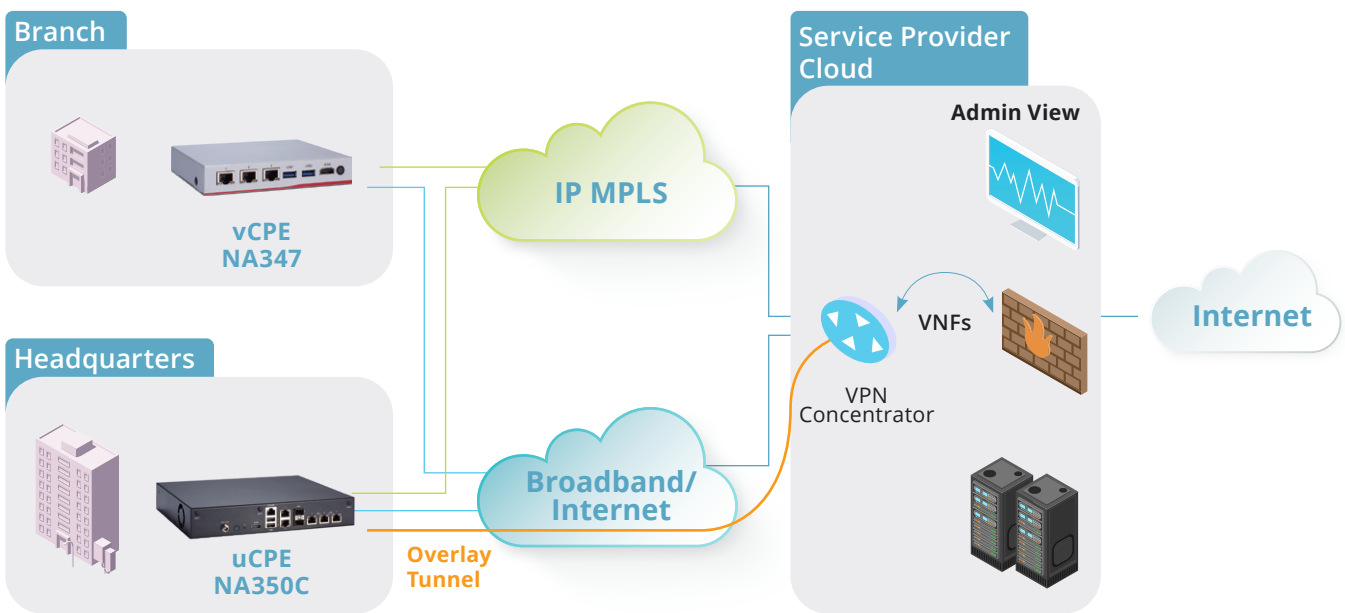
- Intel Atom® processor C3558/C3758 (Denverton)
- Four DDR4 R-DIMM/U-DIMM for up to 128GB of memory
- Six GbE LAN and one expandable LAN module

- EN62368
- Low Power
- TPM
- LAN Bypass
- 4G/LTE
- Wi-Fi
- EN62368
- Low Power
- TPM
- LAN Bypass

uCPE/vCPE

A universal Customer Premises Equipment (uCPE) is a general-purpose platform that integrates compute, storage and networking on a commodity, off-the-shelf server, allowing it to provide network services (such as SD WAN, firewall, etc.) as virtual functions to any site on a network. uCPE is the equivalent of a “Cloud for network services”, but at the customer premise.

A virtual Customer Premises Equipment (vCPE) transforms previously hardware-based operations into software-based virtual functions. In this case, customer premises equipment such as border gateways, firewalls, VPNs, and NAT that used to require a dedicated piece of hardware to run is now moving to virtual, software-based functions.

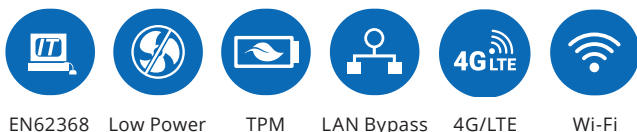


NA347



Fanless Ultra Compact Network Appliance

- Intel® Celeron® processor N3350 (Apollo Lake)
- Three GbE LAN ports (Intel® I211)
- M.2 Key B 2242 for SATA SSD



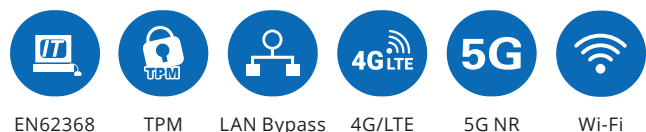
EN62368 Low Power TPM LAN Bypass 4G/LTE Wi-Fi

NA350C



Desktop Network Appliance Platform

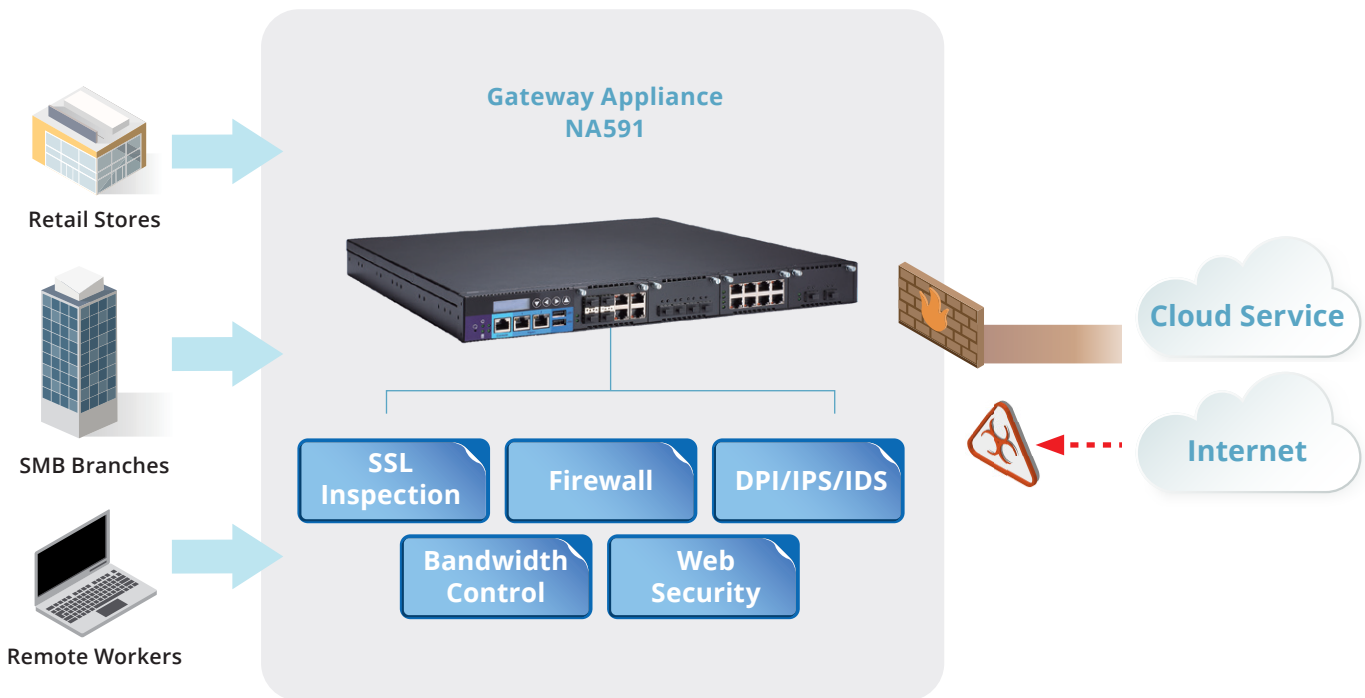
- Intel Atom® x6425E processor
- Two 1G SFP and two GbE RJ-45 (Intel® I350)
- Two 1G SFP, two GbE RJ-45 and three 2.5G RJ-45
- Multiple expansion slots for Wi-Fi, LTE and 5G (Support two SIM sockets)



EN62368 TPM LAN Bypass 4G/LTE 5G NR Wi-Fi

Cloud Security with IPS/IDS

The intrusion detection system (IDS) or the intrusion prevention system (IPS) is a type of security management system for computers and networks. IPS functions protect workloads from vulnerabilities and exploits to create an additional layer of security. An IDS is helpful for monitoring and investigation without downtime to users or applications. This allows administrators to build additional IPS policies based on the information displayed within the IDS to keep the environment protected.



Recommended Models



NA591

1U Rackmount Network Appliance Platform

- LGA1151 socket 9th/8th Intel® Core™ & Xeon® E-2200 processor (Coffee Lake/Coffee Lake Refresh)
- Four expandable LAN modules supported 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Suitable for network security, cloud computing and data center applications



EN60950



LAN Bypass



NIC Module



Redundant Power



NA592

1U Rackmount Network Appliance Platform

- LGA1200 socket 10th gen Intel® Core™/Xeon® W-1200 processor (Comet Lake)
- Two expandable LAN modules supported 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Suitable for network security, cloud computing and data center applications



EN60950



a-RING



LAN Bypass



IPMI



NIC Module



Redundant Power

Industrial Cybersecurity for Smart Factory Security

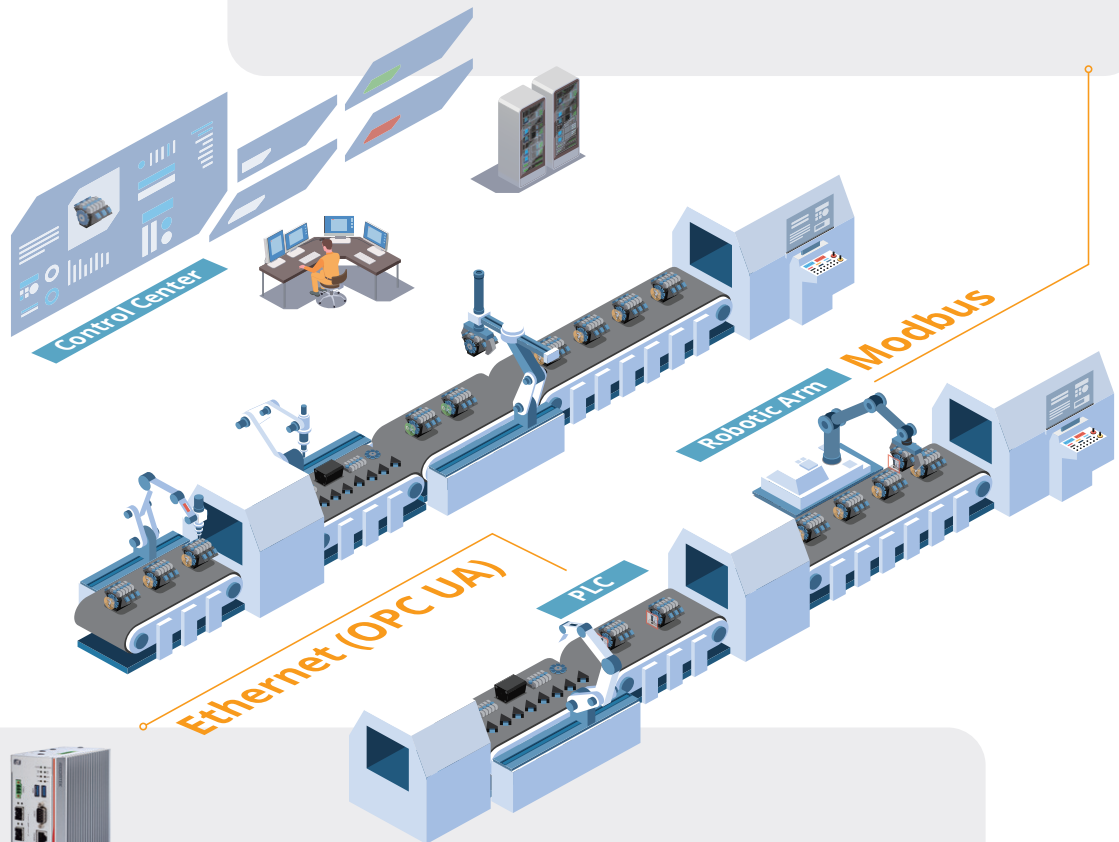
As we enter the era of IoT (Internet of Things), cyberattacks on industrial appliances are also raising growing concerns over network security as enterprises struggle to guard their data and networks against potential threats. Axiomtek provides a complete portfolio of network appliances featuring low power, fanless and slim form factor design as well as noiseless operation, delivering exceptional performance for a diversity of security gateway applications.



iNA110

Stopless Data Transmission Secured Gateway for Automation

- DIN-rail design with fanless, cost-effective and compact size
- Wide operating temperature and power input supported
- TPM security and 1-pair LAN Bypass supported



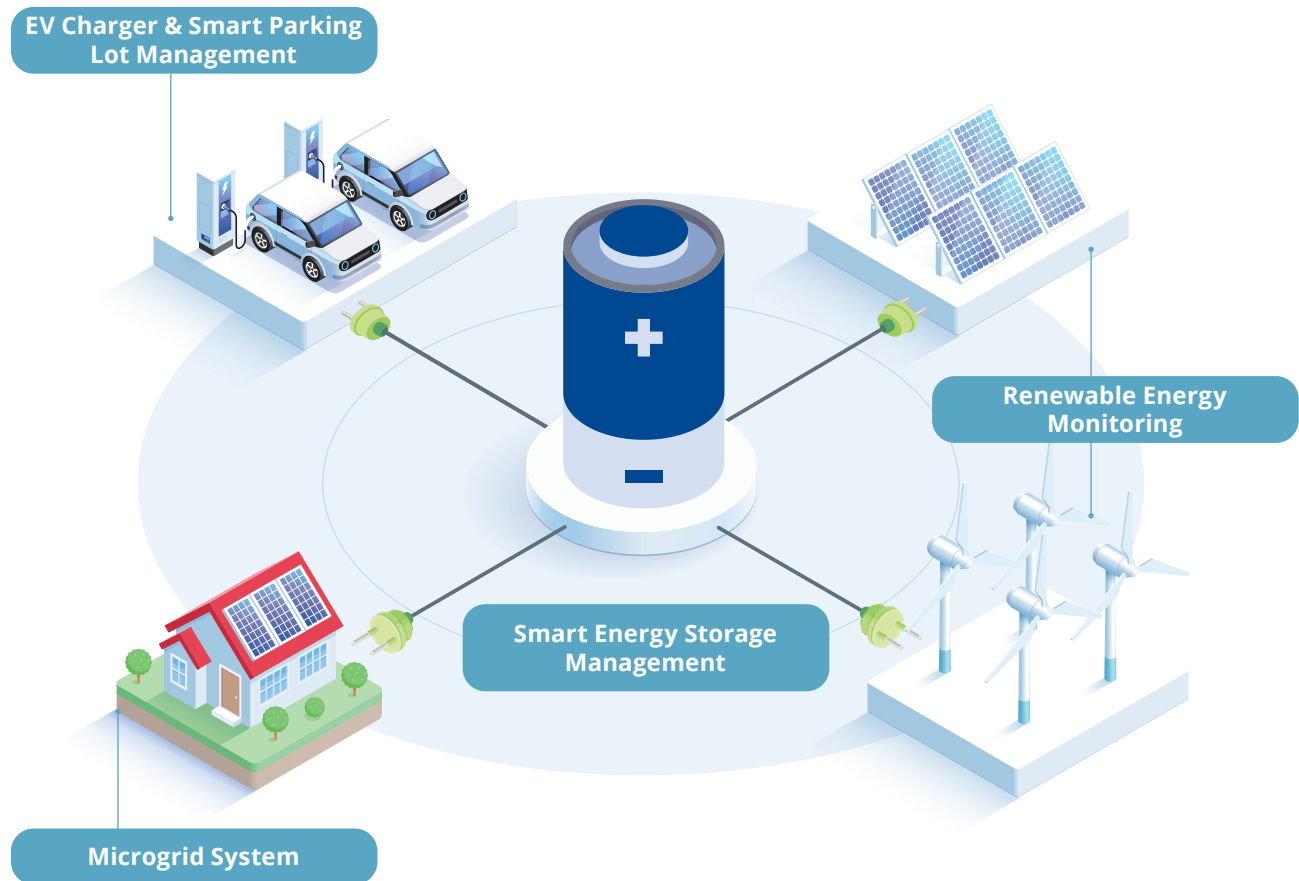
iNA200

Versatile Ethernet Cybersecurity Edge Gateway for IIoT Application

- DIN-rail design with fanless and 5G connectivity
- Rich I/O and versatile LAN configurations with 2-pairs LAN Bypass
- Wide operating temperature and dual power input supported

Smart Energy Solutions

Axiomtek provides various management and monitoring solutions involved in diverse energy fields, including solar power, electric vehicle charging, and energy storage. The products have been used as highly reliable and rugged edge controllers, servers and gateway devices. They are used to manage critical operational functions such as controlling, equipment operations and testing.



Recommended Models



ICO120-E3350

Extremely Compact DIN-Rail IIoT Gateway

- Design with fanless, extremely compact size and cost-oriented
- Wide operating temperature and power input supported
- Best solution for entry gateway of IoT application



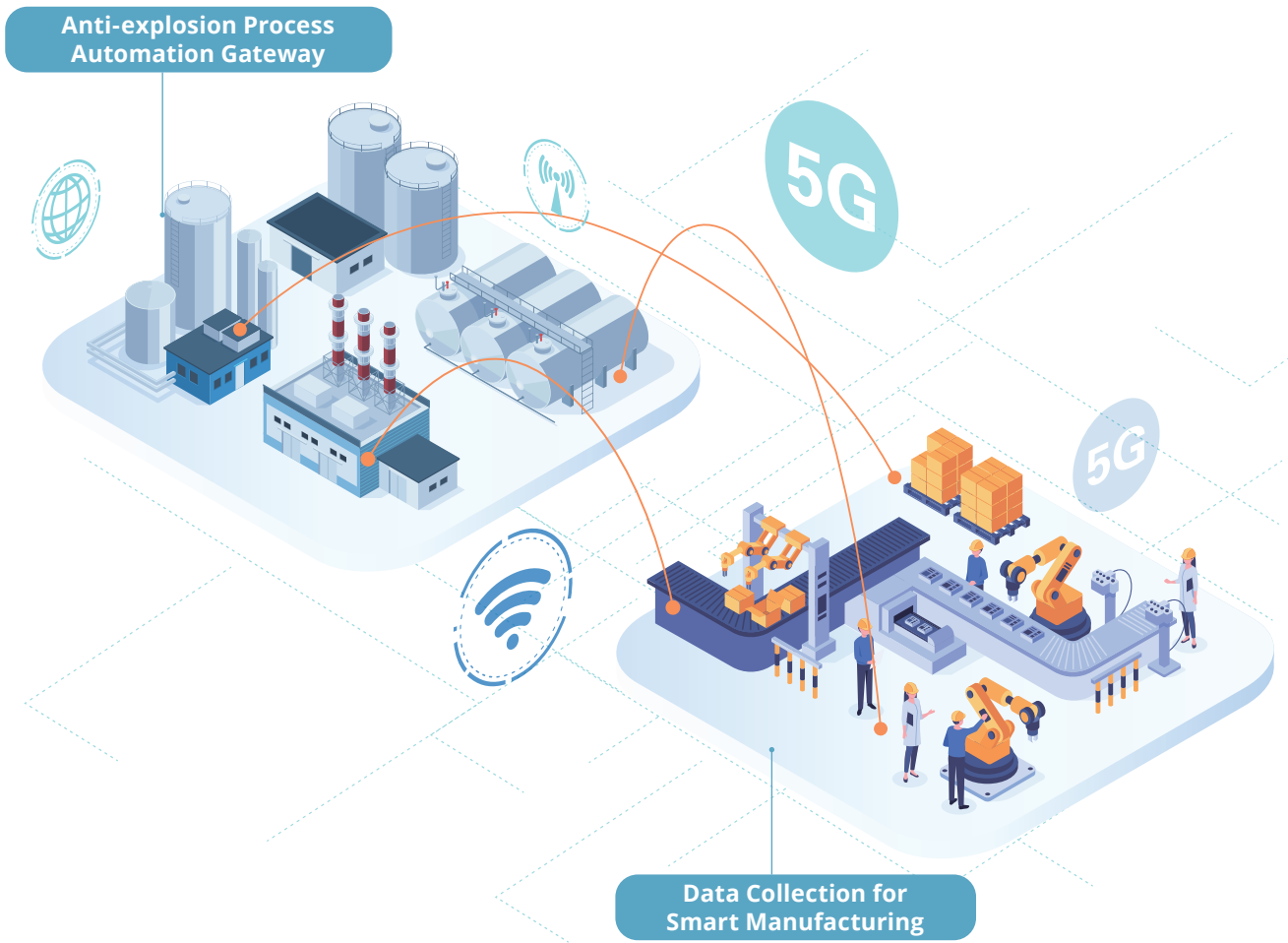
ICO330

High Computing Performance DIN-Rail Embedded System for Edge Site

- Design with fanless and high price-quality ratio
- Wide operating temperature and power input supported
- Flexibility for storage, wireless and I/O functionality

Industrial IoT

Axiomtek has continued to innovate and create high-quality industrial computer products to serve OEMs/ODMs and major oil & gas companies of the petroleum refinery and natural gas provider industries as well as industrial utility. Our products have been used for integration into oil and gas machines that require highly reliable and rugged edge controllers, servers and gateway devices. They are used to manage critical operational functions such as controlling wellhead petrochemical equipment operations and testing.



ICO300-83M

Anti-explosion DIN-Rail Gateway for Hazardous Field Site

- Design with fanless and anti-explosion certified
- Low power consumption control reserved
- 5G connectivity solution ready



ICO520

High Computing Performance DIN-Rail Embedded System for Edge Site

- 12th Gen Intel Core edge PC with fanless design
- Wide operating temperature and power input supported
- Dual display and flexibility for storage, wireless and I/O functionality



Selection Guide

SMB Network Appliances



Features \ Models		NA871	NA870	NA860
Form Factor		2U, 19" rackmount	2U, 19" rackmount	2U, 19" rackmount
Platform	Processor	Dual 4th Gen Intel® Xeon® Scalable processors (Sapphire Rapids)	Dual LGA4189 Intel® Xeon® Scalable processors	Dual LGA3647 Intel® Xeon® Scalable processors
	Chipset	Intel® C741	Intel® C621A/C627A	Intel® C621
	Acceleration Technology	Depends on CPU	Intel® QAT (C627A)	N/A
Memory	Technology	DDR5-4800	DDR4-3200	DDR4-2400
	Max. Capacity	1024GB	1280GB	384GB
	Socket	16 x 288-pin R-DIMM	20 x 288-pin R-DIMM	12 x 288-pin R-DIMM
	ECC Support	ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
	Ethernet (max.)	2 x 10/100/1000 Mbps	66 x 10/100/1000 Mbps	66 x 10/100/1000 Mbps
	LAN Bypass	N/A	Upon LAN module	Upon LAN module
	Controllers	Intel® i210	Intel® i210	Intel® i210
	LAN Module	2 x OCP 3.0 (optional)	8 x NIC slot (Dual CPUs) 4 x NIC slot (Single CPU)	8 x NIC slot (Dual CPUs) 4 x NIC slot (Single CPU)
Storage	HDD/SSD	4 x 2.5" HDD or 4 x U.2 2.5" HDD	2 x 2.5" HDD (Hot swappable)	2 x 2.5" HDD (Hot swappable)
	M.2 SSD	1 x M.2 Key M 2280 slot	1 x M.2 Key M 2242/2280 slot (PCIe) 1 x M.2 Key M 2242/2280 slot (SATA)	N/A
	mSATA/CF/CFast	N/A	N/A	1 x Full-Size mSATA
I/O	Button	N/A	Yes	N/A
	LED Indicator	Storage, BMC	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
	Console	1 x Console (USB type C)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	N/A	Yes	Yes
	Display	1 x VGA	1 x VGA	1 x VGA
TPM		2.0	2.0	2.0
IPMI		2.0	Optional	Optional
Watchdog		N/A	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Redundant	Redundant	Redundant
	Watts	1600W	1600W	800W
	Connector	Inlet C14	Inlet C14	Inlet C14
Expansion Interface		1 x PCIe x16 (optional) 4 x PCIe x8 (optional)	2 x PCIe x16 (optional, 1 slot for each CPU)	2 x PCIe x8 (optional)
Environment	Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Mechanical	Construction	Steel	Steel	Steel
	Dimensions (W x H x D)	88 x 430 x 450 mm (3.46" x 16.93" x 17.7")	88 x 430 x 664 mm (3.46" x 16.93" x 26.10")	88 x 430 x 562 mm (3.46" x 16.93" x 22.12")
	Weight (net/gross)	12 kg/20 kg	14 kg/20 kg	12 kg/20 kg
OS Support		Linux Kernel	Linux Kernel	Linux Kernel
Certifications		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A



NA861	NA721	NA593
1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
LGA3647 Intel® Xeon® Scalable processors	Intel® Xeon® processor D-1700 family (Ice Lake D)	LGA1700 13th Gen Intel® Core™ processors (Raptor Lake)
Intel® C621	SoC Integrated	Intel® R680E
N/A	N/A	N/A
DDR4-2400	DDR4-2933	DDR5-5600
192GB	384GB	128GB
6 x 288-pin R-DIMM	6 x 288-pin R-DIMM/U-DIMM	4 x 288-pin U-DIMM
Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
2 x 10/100/1000 Mbps	8 x 10/100/1000 Mbps 4 x 10/100/1000 /10000Mbps (by CPU)	10 x 10/100/1000 Mbps
34 x 10/100/1000 Mbps	28 x 10/100/1000 Mbps	26 x 10/100/1000 Mbps
Upon LAN module	2 pairs	2 pairs
Intel® i210	Intel® i350	Intel® i350
4 x NIC slot	2 x NIC slot	2 x NIC slot or 1 x OCP 3.0 NIC slot through I/O board
2 x 2.5" HDD	2 x 2.5" HDD	2 x 2.5" HDD
N/A	1 x M.2 Key M 2280 slot	1 x M.2 Key M 2280 slot
1 x Full-Size mSATA	N/A	N/A
N/A	Yes	Yes
Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate
2 x USB 2.0	2 x USB 3.0	2 x USB 3.0
1 x Console (RJ-type)	1 x Console (RJ-type or USB type-C)	1 x Console (RJ-type or USB type-C)
Yes	Yes	Yes
1 x VGA	1 x VGA (optional)	1 x HDMI, 1 x VGA (optional)
2.0	2.0	2.0
Optional	Optional	Optional
255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Single/Redundant (optional)	Single/Redundant (optional)	Single/Redundant (optional)
400W	300W/400W (optional)	300W/400W (optional)
Inlet C14	Inlet C14	Inlet C14
N/A	N/A	1 x M.2 Key B 3052 slot w/Nano SIM for 5G 1 x Full-size PCIe Mini Card slot 1 x PCIe x8 through EIO150 at rear side (optional)
0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +45°C (+32°F to +113°F) (300W ATX) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant)
-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Steel	Steel	Steel
44 x 430 x 561 mm (1.73" x 16.93" x 22")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")
8 kg/12 kg	8.5 kg/9.8 kg	6 kg/10 kg
Linux Kernel	Linux Kernel	Linux Kernel/Windows
CE/FCC Class A	CE/FCC Class A	CE/FCC Class A

Selection Guide

SMB Network Appliances



Features \ Models		NA592	NA591	NA590
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Platform	Processor	LGA1200 Intel® Xeon® W-1200/Intel® Core™	LGA1151 Intel® Xeon® E-2200/Intel® Core™	LGA1151 socket 8th/9th gen Intel® Core™/Xeon® E-2200
	Chipset	Intel® W480E	Intel® C246	Intel® C246/H310
	Acceleration Technology	N/A	N/A	N/A
Memory	Technology	DDR4-2933	DDR4-2666	DDR4-2666
	Max. Capacity	128GB	128GB	64GB (H310) 128G (C246)
	Socket	4 x 288-pin U-DIMM	4 x 288-pin U-DIMM	4 x 288-pin U-DIMM (H310) 2 x 288-pin U-DIMM (C246)
	ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	10 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps (H310) 8 x 10/100/1000 Mbps (C246)
	Ethernet (max.)	26 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps	14 x 10/100/1000 Mbps (H310) 26 x 10/100/1000 Mbps (C246)
	LAN Bypass	2 pairs	Upon LAN module	LAN Bypass function through latch relay (2 pairs)
	Controllers	Intel® i350	Intel® i210	Intel® i210
	LAN Module	2 x NIC slot	4 x NIC slot	2 x NIC slot (2 slot for C246 only)
Storage	HDD/SSD	2 x 2.5" HDD	2 x 2.5" HDD	2 x 2.5" HDD or 1 x 3.5" HDD (3.5" optional for single PSU)
	M.2 SSD	1 x M.2 Key B 2242	1 x M.2 Key M 2280	1 x M.2 Key M 2280 (C246 only)
	mSATA/CF/CFast	N/A	1 x Full-Size mSATA	1 x Full-Size mSATA
I/O	Button	Yes	N/A	N/A
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 2.0	2 x USB 3.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes	Yes
	Display	1 x VGA (optional)	1 x VGA (optional)	1 x VGA (optional)
TPM	2.0	1.2	1.2	
IPMI	Optional	Optional	Optional	
Watchdog	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	
Power Supply	Power Type	Single/Redundant (optional)	Single/Redundant (optional)	Single/Redundant (optional)
	Watts	300W/400W (optional)	400W	300W/400W (optional)
	Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
	Connector	Inlet C14	Inlet C14	Inlet C14
Expansion Interface		1 x M.2 Key E 2230 slot 1 x PCIe Mini Card slot (PCIe x1 in default, SATA by BOM option)	1 x PCIe x4 (optional)	1 x PCIe x8 (C246 optional)
Environment	Operating Temperature	0°C to +45°C (32°F to +113°F) (300W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F) (300W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Mechanical	Construction	Steel	Steel	Steel
	Dimensions (W x H x D)	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 500 mm (1.73" x 16.93" x 19.69")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")
	Weight (net/gross)	8.32 kg/12.76 kg	6 kg/9.5 kg (single power) 7.3 kg/10.8 kg (redundant power)	6 kg/10 kg
OS Support	Linux	Linux	Linux	
Certifications	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	

Selection Guide

SOHO Network Appliances



Features \ Models		NA363R	NA362R	NA362
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U Desktop
Platform	Processor	Intel® Atom® processor C3558/C3758	Intel® Atom® C3558/C3758	Intel® Atom® C3338/C3558/C3758
	Chipset	SoC integrated	SoC integrated	SoC integrated
	Acceleration Technology	Intel® QAT	Intel® QAT	Intel® QAT
Memory	Technology	DDR4-2400	DDR4-2400	DDR4-2400
	Max. Capacity	128GB	128GB	64GB (U-DIMM) 128GB (R-DIMM)
	Socket	4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin R-DIMM/U-DIMM	2 x 288-pin R-DIMM/U-DIMM (C3338) 4 x 288-pin R-DIMM/U-DIMM (C3558/ C3758)
	ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet	6 x 10/100/1000 Mbps (NIC max. 8 x 10/100/1000 Mbps)	6 x 10/100/1000 Mbps 2 x 10G SFP+ or 4 x 10G SFP+	6 x 10/100/1000 Mbps 2 x SFP+ (C3558) 4 x SFP+ (C3758)
	LAN Bypass	1 pair 2 pairs (optional)	1 pair	1 pair (optional)
	Controllers	Marvell® 88E1543 & Intel® I210	Intel® i210	Intel® i210
	LAN Module	1 x NIC Slot (C3758 optional)	N/A	N/A
Storage		2 x 2.5" HDD 1 x 3.5" HDD (optional) 1 x Full-Size mSATA	2 x 2.5" HDD 1 x 3.5" HDD (optional) 1 x Full-Size mSATA	1 x 2.5" HDD 1 x Full-Size mSATA
I/O	Button	1 x Power Switch	1 x Power Switch	1 x Power Switch 1 x Reset Button
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes	N/A
	Display	N/A (optional for VGA module)	N/A (optional for VGA module)	N/A
TPM		2.0	2.0	2.0 (optional)
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Open frame	Open frame	Adapter
	Watts	120W	120W	60W/84W
	Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
	Connector	Inlet C14	Inlet C14	DC-Jack
Expansion Interface		1 x Full-size Mini-PCIe slot (PCIe/USB) 1 x Full-size Mini-PCIe slot (SATA/USB)	1 x Full-size Mini-PCIe slot (PCIe/USB) 1 x Full-size Mini-PCIe slot (SATA/USB)	1 x Full-size Mini-PCIe slot (PCIe+USB) 1 x Full-size Mini-PCIe slot (SATA+USB) 1 x Mini SIM slot
Environment	Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)	0°C to +40°C (+32°F to +104°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Mechanical	Construction	Steel	Steel	Steel
	Dimensions (W x H x D)	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 231 x 197 mm (1.73" x 9.09" x 7.76")
	Weight (net/gross)	3.5 kg/4.5 kg	3.5 kg/4.5 kg	1.64 kg/2.54 kg (C3338/C3558) 1.64 kg/2.69 kg (C3758)
OS Support		Linux	Linux	Linux
Certifications		CE/FCC Class A	CE/FCC Class B	CE/FCC Class B

Selection Guide

SOHO Network Appliances



Features \ Models		NA350C	NA345	NA347	NA346B
Form Factor		1U Desktop	1U Desktop	Ultra-Compact, Fanless	Ultra-Compact, Fanless
Platform	Processor	Intel Atom® x6425E	Intel® Pentium® J3455 Intel® Celeron® N3350	Intel® Celeron® N3350	Intel® Celeron® N3350
	Chipset	SoC integrated	SoC integrated	SoC integrated	SoC integrated
	Acceleration Technology	N/A	N/A	N/A	N/A
Memory	Technology	DDR4-3200	DDR3L-1866	DDR3L-1866	DDR3L-1866MHz
	Max. Capacity	32GB	8GB	8GB	8GB
	Socket	2 x 260-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM
	ECC Support	Non-ECC	Non-ECC	Non-ECC	Non-ECC
Network Interface	Ethernet	2 x 10/100/1000 Mbps 2 x 2.5G RJ-45 2 x 1G SFP	4 x 10/100/1000 Mbps	3 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps
	LAN Bypass	1 pair (optional)	1 pair (optional)	1 pair (optional)	N/A
	Controllers	Intel® i350 and MaxLinear GPY211	Intel® i211	Intel® i211	Realtek RTL8111H
	LAN Module	N/A	N/A	N/A	N/A
Storage		1 x 2.5" HDD 1 x M.2 Key M 2242 slot (SATA3)	1 x 2.5" HDD (max. 9.5 mm height) 1 x Full-size mSATA	1 x M.2 2242 Key B slot (SATA)	1 x Full-size mSATA 1 x eMMC 8G onboard
I/O	Button	1 x Power Switch	1 x Power Switch	1 x Power Switch with LED	1 x Power Switch
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	N/A	N/A
	USB	2 x USB 2.0	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	N/A	N/A	N/A	N/A
	Display	1 x HDMI	1 x HDMI (optional)	1 x HDMI	N/A
TPM		2.0 (optional)	1.2 (optional)	2.0 (optional)	N/A
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset	255 stepping for system reset
Power Supply	Power Type	Adapter	Adapter	Adapter	Adapter
	Watts	60W	60W	36W	36W
	Connector	DC-Jack w/screw type	DC-Jack	DC-Jack w/screw type	DC-Jack w/screw type
Expansion Interface		1 x M.2 Key M 2242 slot (SATA3) 1 x Half-size PCI Express Mini Card slot (PCIe+USB2) 1 x Full-size PCI Express Mini Card slot (USB2) w/Nano SIM 1 x M.2 Key B 3052/3042 slot (USB2+USB3) w/Nano SIM 1 x M.2 Key E 2230 slot (PCIe+USB2)	1 x Half-size PCIe Mini Card slot (USB, PCIe optional) 1 x Full-size PCIe Mini Card slot (SATA+USB) 1 x Full-size PCIe Mini Card slot (PCIe+USB) 1 x Standard SIM slot	1 x M.2 Key B 2242 slot 1 x Full-size PCIe Mini Card slot (PCIe+USB) 1 x Nano SIM slot	1 x Full-size PCIe Mini Card slot (SATA+USB)
Environment	Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Mechanical	Construction	Steel	Steel	Aluminum	Aluminum
	Dimensions (W x H x D)	44 x 257 x 197 mm (1.73" x 10.12" x 7.76")	44 x 231.9 x 152 mm (1.73" x 9" x 5.98")	26 x 146 x 118.2 mm (1.24" x 5.57" x 4.65")	31 x 166 x 118.2 mm (1.22" x 6.54" x 4.65")
	Weight (net/gross)	1.6 kg/2.45 kg	2.35 kg/2.61 kg	0.284 kg/0.786 kg	TBD
OS Support		Linux	Win 10, Linux	Win 10, Linux	Linux
Certifications		CE/FCC Class B	CE/FCC Class B	CE/FCC Class B	CE/FCC Class B

Add-on Cards

	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
1G	AX93316-8GIL	Intel® i350	8	8/0	4
	AX93326-8GIL	Intel® i210	8	8/0	4
	AX93316-8GI	Intel® i350	8	8/0	0
	AX93322-8MIL	Intel® i350	8	4/4	2
	AX93322-8FI	Intel® i350	8	0/8	0
	AX93336-4GIL	Intel® i350	8	4/0	2
	AX93336-4FI	Intel® i350	4	0/4	0
10G	AX93327-4FI	Intel® XL710	4	0/4	0
	AX93307-2FI	Intel® 82599ES	2	0/2	0
	AX93307-2FIL	Intel® 82599ES	2	0/2	1
	AX93327-2FIL	Intel® X710	2	0/2	1
	AX93327-4FIL	Intel® XL710	4	0/4	2
25G	AX93332-25FI	Intel® XXV710	2	0/2	0
40G	AX93331-2QFI	Intel® XL710	2	0/2	0
100G	AX93357	Intel® E810	2	0/2	0
	AX93358	Intel® E810	2	0/2	0

10GbE Fiber Bypass Module



AX93327-2FIL

- Intel® Ethernet Controller X710
- 2 x 10GbE SFP+
- PCIe x8 Gen3
- Enhanced DPDK for network functions
- Modular Design



AX93327-4FIL

- Intel® Ethernet Controller XL710
- 2 x 10GbE SFP+
- PCIe x8 Gen3
- Enhanced DPDK for network Functions
- Modular Design

100Gbps Modules



AX93357

PCIe Card - PCIe x16 Gen 4.0

- Intel® Ethernet Controller E810
- 2 x 100GbE QSFP28 cages
- Enhanced DPDK for network functions



AX93358

NIC Module

- Intel® Ethernet Controller E810
- 2 x 100GbE QSFP28 cages
- Enhanced DPDK for network functions

Selection Guide

x86-based DIN-rail Industrial IoT Gateway

NEW



NEW



NEW



Features \ Models	ICO120-E3350	ICO300-83M (ATEX/C1D2)	ICO330	ICO520
CPU Level	Intel® Celeron® N3350 1.1 GHz	Intel Atom® x5-E3930	Intel Atom® x6212RE (2-core, 1.20 GHz) or Intel Atom® x6414RE (4-core, 1.50 GHz)	Intel® Core™ i7-1265UE (10-core, 1.7 GHz) or Intel® Core™ i5-1245UE (10-core, 1.5 GHz) or Intel® Core™ i3-1215UE (6-core, 1.2 GHz) or Intel® Celeron® 7305E (5-core, 1.00 GHz)
System Memory	1 x DDR3L 1866 SO-DIMM, up to 8GB	1 x DDR3L-1866 SO-DIMM, up to 8GB	SO-DIMM DDR4-3200, up to 32GB	SO-DIMM DDR4-3200, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
Serial	DB9 RS-232/422/485 (maxima number of ports are 2 and share DB9 amount with CAN)	2 x Isolated RS-232/422/485 (Phoenix Type) 4 x Isolated RS-232/422/485 (4-wire, Phoenix Type)	2 x terminal block isolated RS-232/422/485 (More COM ports available from MIO modules)	N/A (COM ports available from MIO modules)
CANbus	DB9 RS-232/422/485 (maxima number of ports are 2 and share DB9 amount with Serial)	N/A	N/A	N/A
Display	1 x HDMI	1 x HDMI	1 x HDMI	2 x HDMI
Ethernet	2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT)	3 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)	3 x RJ-45 isolated 2.5 Gbps (Intel® I226-IT)	4 x RJ-45 isolated 2.5 Gbps (Intel® I226-IT)
PoE	N/A	N/A	N/A	N/A
Expansion Interface	1 x Full-size Rev.1.2 PCI Express Mini Card slot 1 x Half-size Rev.1.2 PCI Express Mini Card slot	1 x M.2 Key B 3052 1 x Full-size Rev.1.2 PCI Express Mini Card slot 1 x Half-size Rev.1.2 PCI Express Mini Card slot	1 x M.2 Key B 3050/3052: USB (for 5G/Wi-Fi) 1 x Full-size Rev.1.2 PCI Express Mini Card slot: PCIe/USB (for LTE/Wi-Fi) 1 x Half-size Rev.1.2 PCI Express Mini Card slot: USB/SATA (for Wi-Fi/mSATA) 2 x SIM slot (1 for M.2; 1 for full-size PCI Express Mini Card) 1 x MIO	1 x M.2 Key B 3050/3052: PCIe/USB (for 5G/Wi-Fi) 1 x Full-size Rev.1.2 PCI Express Mini Card slot: PCIe/USB (for LTE/Wi-Fi) 1 x Half-size Rev.1.2 PCI Express Mini Card slot: USB/SATA (for Wi-Fi/mSATA) 2 x SIM slot (1 for M.2; 1 for full-size PCI Express Mini Card) 1 x MIO
DIO	1 x 8-bit programmable DIO (share bottom side DB9 with Serial and CAN)	1 x Isolated 8-in/8-out DIO	N/A (COM ports available from MIO modules)	N/A (COM ports available from MIO modules)
USB	2 x USB 2.0	2 x USB 3.0	2 x USB 3.1	4 x USB 3.1
Storage	1 x mSATA 1 x eMMC on board (optional)	1 x mSATA 1 x Internal 2.5" SATA drive 1 x eMMC on board (optional)	1 x Internal 2.5" SATA drive 1 x mSATA (occupied 1 x PCI Express Mini Card slot) 1 x M.2 (PCIe Gen3x2): NVMe (2242/2280) (optional) 1 x eMMC (optional)	1 x Internal 2.5" SATA drive 1 x mSATA (occupied 1 x PCI Express Mini Card slot) 1 x M.2 (PCIe Gen4x4): NVMe (2242/2280) (optional) 1 x eMMC (optional)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	9 to 36 VDC (terminal block, typical is 12 to 24VDC)	9 to 36 VDC (typical is 12 to 24VDC)	9 to 36 VDC (terminal block, typical is 12 to 24VDC)	9 to 36 VDC (terminal block, typical is 12 to 24VDC)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +75°C (-40°F to +167°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	63 x 110 x 155 mm (2.48" x 4.33" x 6.1")	51 x 110 x 155 mm (20.08" x 4.33" x 6.1")	83 x 110 x 155 mm (3.27" x 4.33" x 6.1")
Weight (net/gross)	0.3 kg (0.67 lb)/0.45 kg (0.99 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	1.0 kg (2.2 lb)	1.50 kg (3.3 lb)
Certifications	CE, FCC, UL	CE, FCC, ATEX, C1D2	CE, FCC	CE, FCC
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux
Software Support	eAPI	eAPI	eAPI	eAPI



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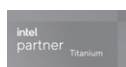
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