



2025 — 2026 Edition

NETWORK APPLIANCES



iBASE
www.ibase.com.tw

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About IBASE

 HQ Taipei, Taiwan	 Stock Code TPEX 8050 (Since 2003)	 Chairman C. S. Lin	 Design and Manufacturing of Robust Computing Platforms
 Capital US\$ 66.2M	 Revenue US\$ 161M (2024)	 Employees 1,010 (Group) 770 (IBASE HQ)	

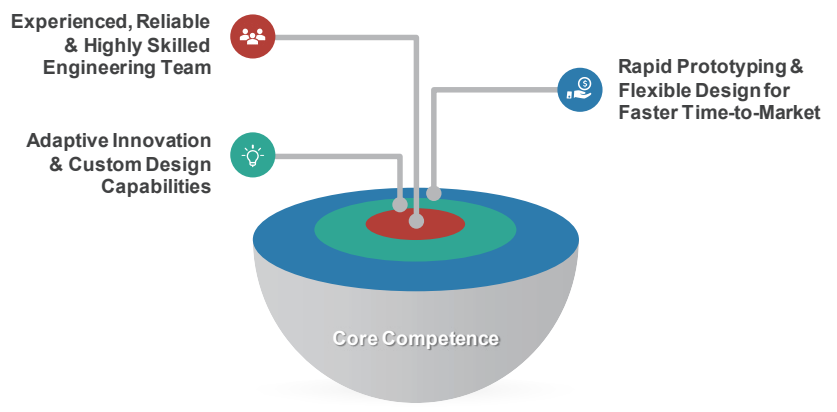
Company Profile

IBASE Technology specializes in the design and manufacture of robust industrial PC products and has been serving the global market since its establishment in 2000. All manufacturing and quality control operations are conducted in IBASE's own facilities in Taiwan, which are certified to ISO 9001, ISO 13485, ISO 14001, and ISO 27001 standards. The company's current product offerings include x86 and RISC-based industrial motherboards, embedded systems, Edge AI computers, panel PCs, network appliances, and digital signage players. IBASE is publicly listed on the Taipei Exchange (TPEX: 8050) and has become a leading global provider of innovative industrial and embedded computing solutions.



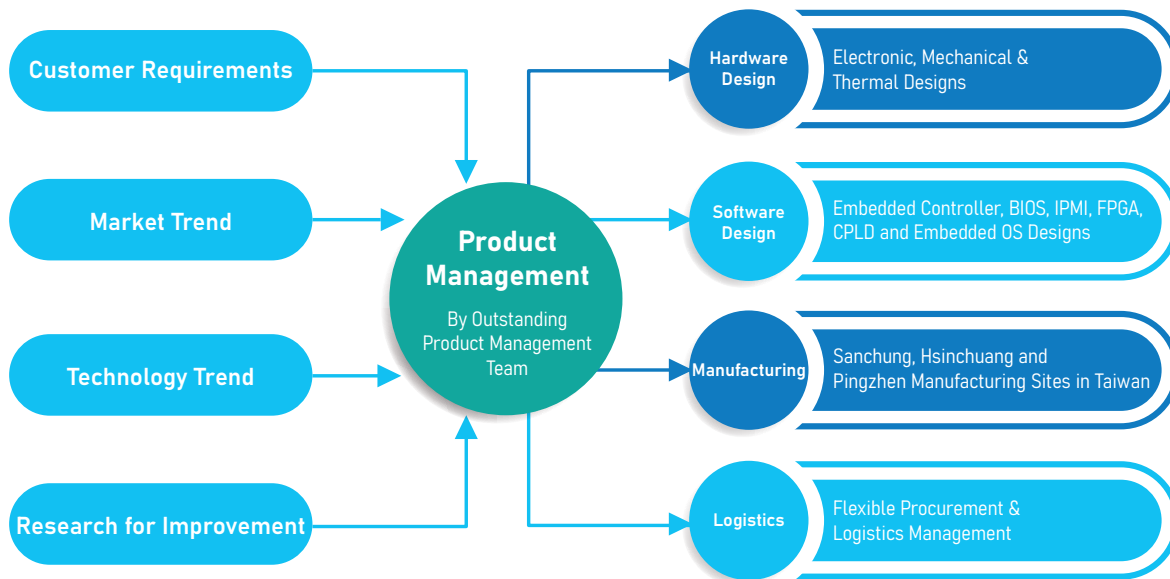
Core Competence – R&D Design Capabilities

IBASE excels in delivering advanced R&D design capabilities through a team of experienced, reliable, and highly skilled engineers. Our core expertise lies in adaptive innovation and customized design solutions tailored to diverse industry requirements. By leveraging rapid prototyping and flexible design processes, we help customers accelerate time-to-market and gain a competitive edge in today's fast-evolving technology landscape. From concept to completion, IBASE prioritizes precision, efficiency, and reliability—making us a trusted partner for businesses seeking advanced industrial computing solutions.



Design & Manufacturing Services

Established to become a leading global provider of embedded board and system solutions, IBASE manufactures and supplies cutting-edge products based on the latest technologies to meet market demands. Our R&D and product management teams have the expertise to design and develop innovative products that meet customer requirements and design specifications. We place great importance on research and development, investing heavily in manpower and resources to consistently deliver high-quality, innovative products. IBASE is also committed to environmental compliance by working to prevent pollution through the avoidance of banned or restricted substances in our production processes and products, helping our customers address their environmental challenges.



IBASE Manufacturing Sites

IBASE Manufacturing Sites in Taiwan



18,481 m² / 5,591 Ping

Pingzhen

- Board Production
- System Assembly
- Validation



6,070 m² / 1,840 Ping

Xinzhuang

- System Assembly
- Validation



3,124 m² / 945 Ping

Sanchong

- Board Production
- Validation

Total Size

297,891 Square-feet
(27,675 m² / 8,376 Ping)

Capacity

- SMT Line x 7
- DIP Assembly Line x 4
- System Assembly Line x 10
- Cleanroom x 2
- Burn-in Room x 20

PCBA

80K/month

In-house Production+
Outsourcing

System Assembly

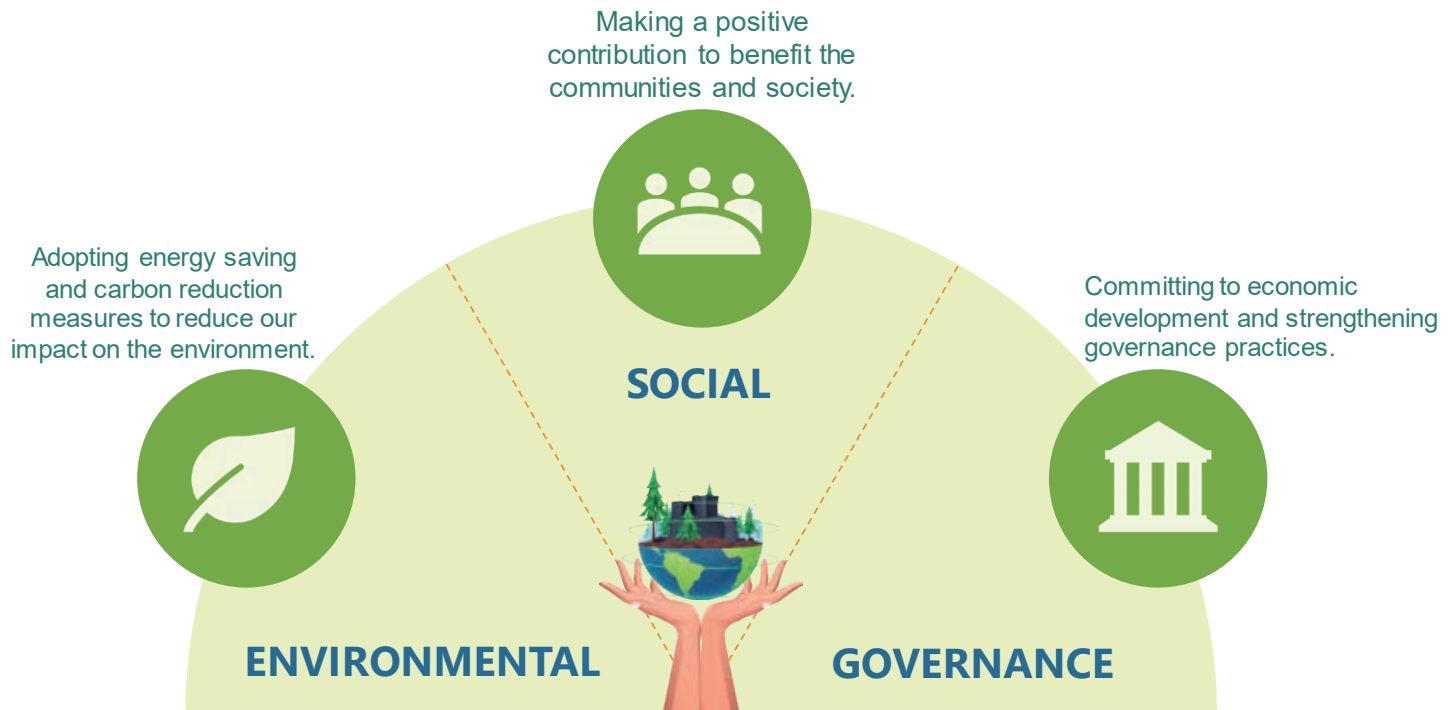
50K/month

In-house Production+
Outsourcing

Certifications



Our ESG Commitments



Sustainable Development Goals (SDGs)

Aspects		SDGs Advocated by United Nations		
	SOCIAL			
	GOVERNANCE			
	ENVIRONMENTAL			

Modular Design with High Expandability

The modular design of IBASE's network appliances ensures high expandability and scalable functionality, and a lower total cost of ownership. This standard approach allows rapid customization and easy configuration with modules that can be interchangeably combined to meet customers' optimal requirements.

IBASE network appliances offers flexible customization by enabling the same physical slots to supports different combinations of network interface controller (NIC) modules, HDD trays, or empty slots. Advanced LAN bypass features fault-tolerance that prevents single point of failure in the appliance in mission critical networks to ensure essential business communications continue in the event of power outage.



NIC Modules

- Wide choice of network modules
- Optional 1GbE RJ45/SFP, 10GbE SFP+, 25GbE SFP28, 100GbE QSFP28
- Advanced LAN bypass pairs
- Flexible and hot-swappable slots for NIC modules



Data Processing

- Multi-core processing for optimal performance and throughput with support for DPDK, VMDq, SR-IOV
- Advanced security and anti-theft protection via TPM for full-disk encryption



System Features

- High density I/O ports
- Programmable user self-defined button
- Supports SATA, SAS, NVMe, M.2, mSATA or Mini PCI-E card for selected products
- Hot-swappable 2.5"/3.5" storage modules



Power Supply Unit (PSU)

- Redundant and hot-swappable power supply units
- AC or DC power supply options



Mounting Kits

- Rack mounting or wall mounting for desktop appliances
- Slide-rail mounting for 1U / 2U rackmount appliances
- DIN-rail mounting for desktop appliances

Advanced LAN Bypass



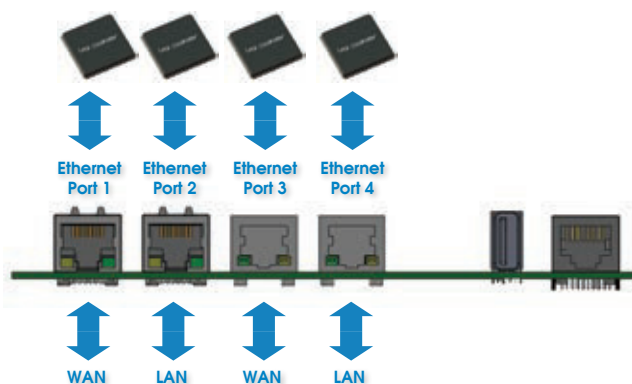
What is LAN Bypass?

Bypass is a hardware device that provides a fail-safe access port for an in-line monitoring appliance such as an IPS, firewall, WAN optimization device or UTM system. If the appliance loses power, experiences a software failure, or is removed, traffic can no longer flow through the link. The bypass switch removes the point of failure by automatically shunting traffic around the appliance whenever the appliance is incapable of passing traffic. The advantage of using bypass is it keeps network traffic flowing when the in-line appliance fails.

IBASE advanced LAN bypass provides two setting methods. The system developer can decide to use the BIOS or hardware jumper to control the bypass behavior in the system. BIOS control provides flexible usage for further upgrade or modification, and hardware jumper can fix the LAN operation at "Bypass" or "Normal" mode to prevent end users from changing the BIOS setting.

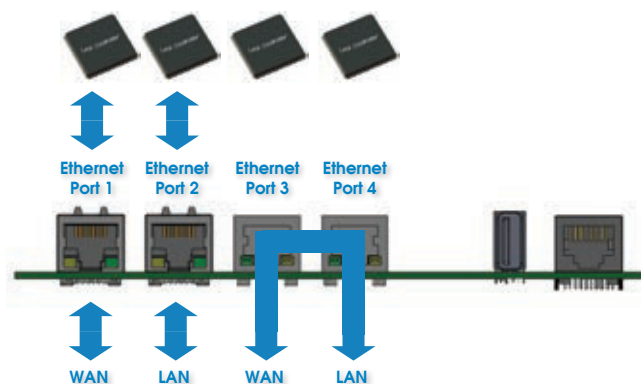
Normal Mode:

Ethernet Port 1 - 4 are in normal mode.



Bypass Mode:

Ethernet Port 3 & 4 are configured, being disconnected from the LAN controller in bypass mode. LAN ports are bridged together in pair.



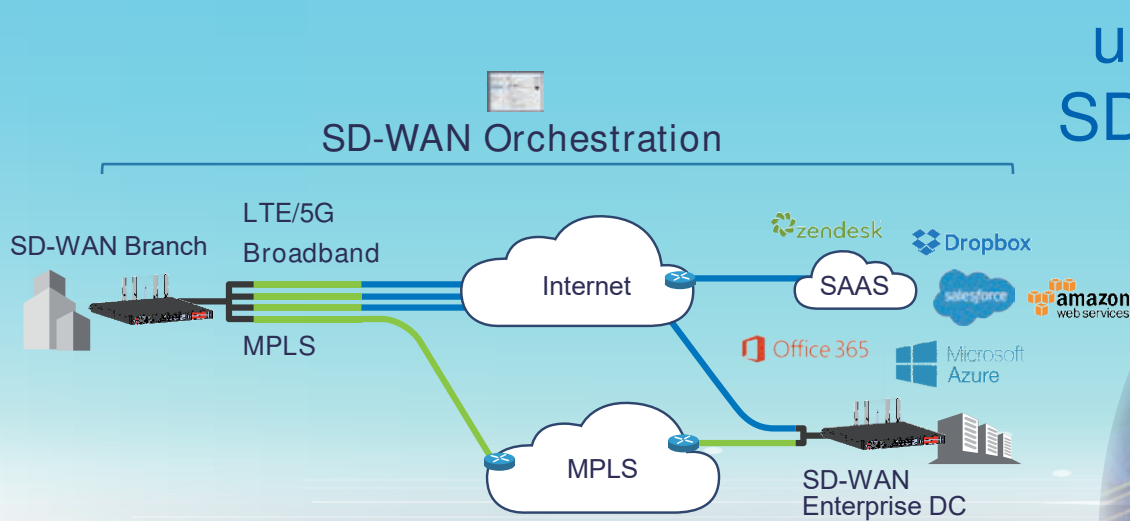
Features:

- LAN bypass or normal mode preset by BIOS
- Independent status control for each bypass segment
- Able to bypass GbE ports on a host system in the following situations:
 1. System off
 2. System power on (prior to OS boot)
 3. System on (software request during runtime).
- System automatically reboot during runtime if system hangs-without packet loss.
- Software programmable bypass or normal mode.

5G Opportunities

With the rapid advancement of network function virtualization (NFV) technology, the transition from LTE to 5G has unlocked new opportunities for businesses, driven by increased speed and enhanced connectivity. Latency-sensitive applications such as Augmented Reality (AR), Virtual Reality (VR), video delivery, and factory automation have shifted towards the network edge, presenting unique hardware design challenges due to extreme temperature requirements, constrained space, and limited power in rugged edge environments.

At IBASE, we have been at the forefront of providing network appliances for network security and application optimization for over a decade, with a diverse range of desktop and rackmount products. In addition to our traditional networking appliances, we have expanded our product lines to include uCPE/SD-WAN products,



Application Delivery

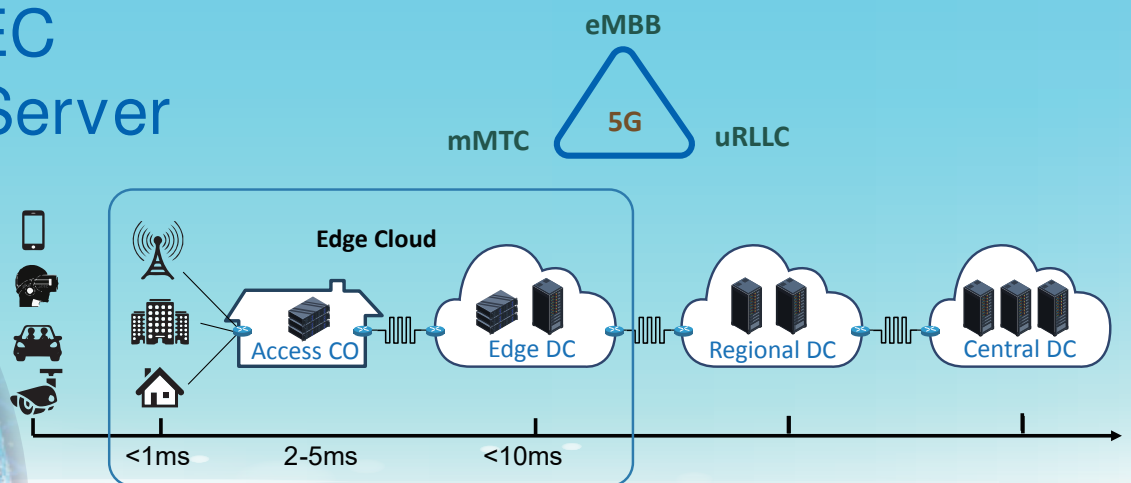
Application Delivery Controller



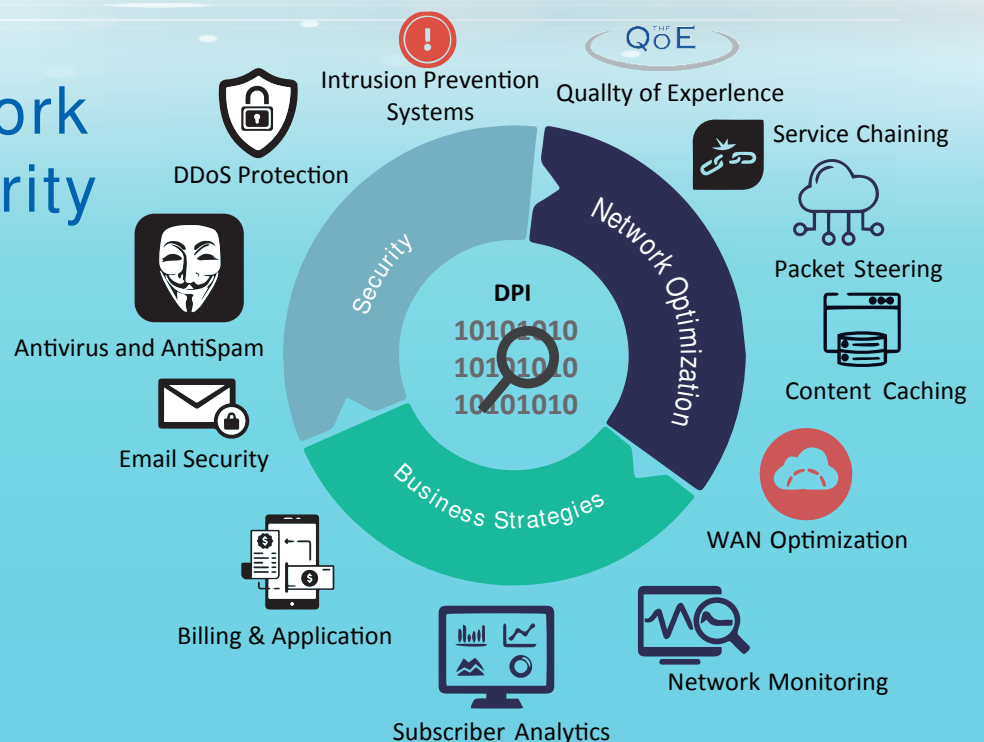
such as the INA1607, which supports WiFi 6 and LTE with up to Cat20/5G capabilities. Furthermore, leveraging our expertise in various IoT vertical markets, we also offer MEC (Multi-Access Edge Computing) servers that seamlessly integrate IoT network requirements with 5G edge infrastructure.

As a leader in the industry, IBASE is committed to delivering cutting-edge solutions that enable businesses to capitalize on the opportunities presented by 5G technology. With our innovative products and extensive experience in network appliances and IoT, we are well-equipped to cater to the evolving needs of the 5G era, empowering businesses to thrive in the rapidly changing landscape of modern networking.

MEC Edge Server



Network Security



Networking & Communication Applications

Networking and communication have become indispensable elements in people's daily lives, making the world a smaller place by facilitating constant connectivity and faster progress. At IBASE, we recognize the significance of networking and offer a wide range of network hardware solutions, including enterprise-level 2U/1U rackmount network computing appliances, desktop network security appliances, uCPE/SD-WAN appliances, networking motherboards, and expansion module cards. Our high-speed network appliance solutions cater to diverse market segments and applications, including enterprise network security, IoT security, advanced threat protection, unified threat management (UTM), firewall, VPN, content filtering, SDN/N-FV/SD-WAN, vCPE/uCPE, remote access server, and data management and analytics. Our solutions are equipped with four to 66 high-speed Gigabit Ethernet ports and expansion module cards, enabling multi-functionality and flexible networking configurations. With IBASE, customers can rely on our expertise and comprehensive product offerings to meet their networking needs across various industries and use cases. We are committed to providing cutting-edge solutions that simplify life and enable faster progress through reliable and efficient networking and communication technologies.

Cloud Computing



- Infrastructure as a service (IaaS)
- Software as a service (SaaS)

Network Management



- Central Portal Management
- Network Monitoring & Analytics



Cyber Security



- Intrusion Detection Systems
- Encryption/Decryption

SDN & NFV



- SD-WAN
- uCPE

MEC



- Multi-access Edge Computing

Network Security



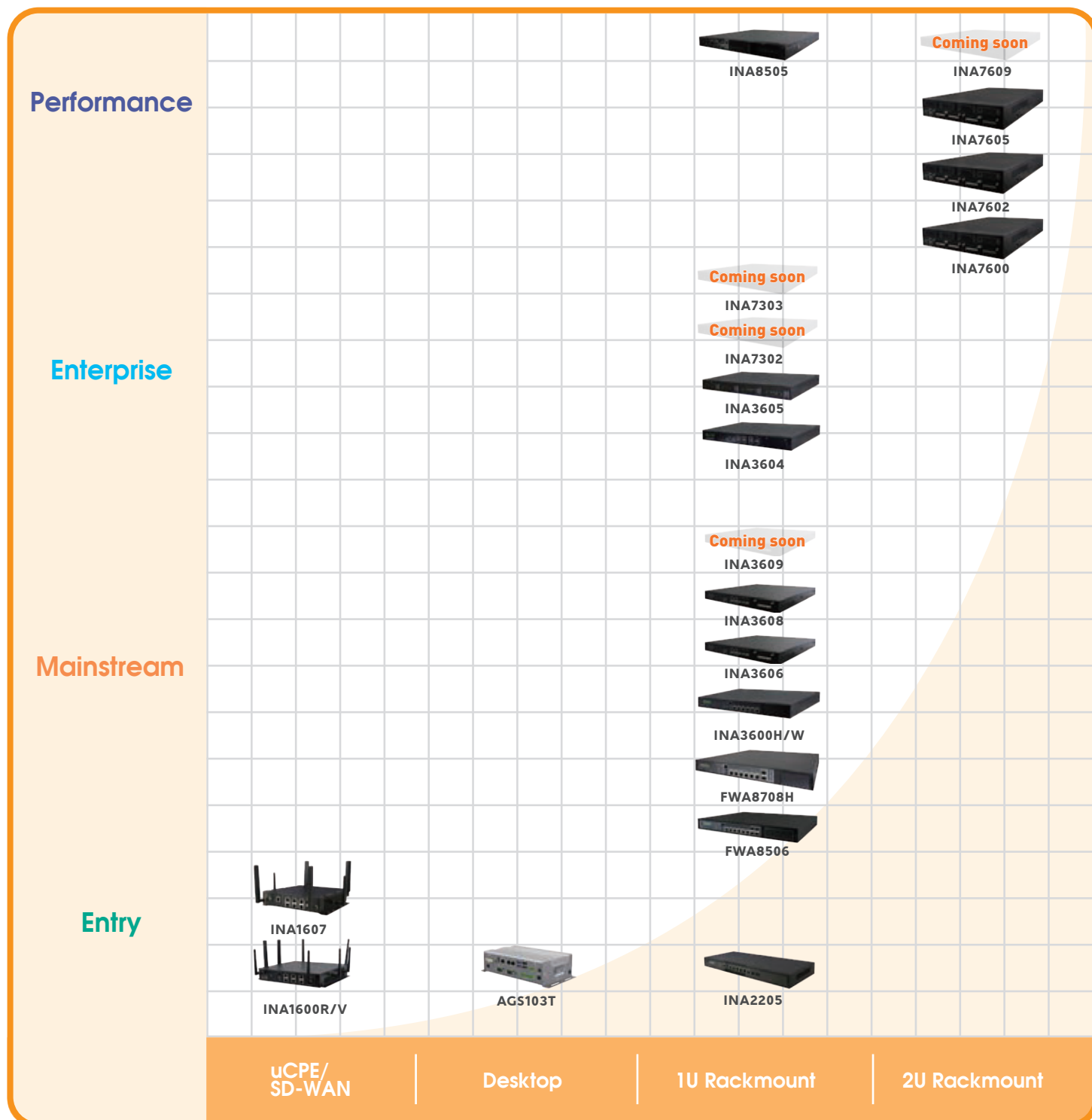
- Firewall
- UTM



IBASE Network Appliances Introduction

IBASE offers an extensive range of network appliances, including desktop, 1U/2U rackmount systems, and uCPE/SD-WAN appliances that are designed to support a wide array of powerful Intel® and AMD processors. These systems also come with various options for Ethernet modules, inner storage expansion, and redundant power supplies to ensure high availability and serviceability.

Based on the x86 architecture, our high-performance networking platforms are specifically designed to meet the hardware requirements of a diverse range of network and cyber security applications. Our solutions cater to various markets, including independent software vendors (ISV), small and medium businesses (SMB), SOHO (small office/home office), and enterprise markets, among others.



Comparison Table



Model		INA8505	INA7609	INA7605	INA7602	INA7600
Form Factor		1U Edge Server	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
CPU		Intel Xeon D Processors (Xeon® Ice Lake)	Dual 6th Gen Intel® Xeon® Scalable Processors XCC LGA4710 (Granite Rapids SP)	Dual 5th Gen Intel® Xeon® Scalable Processors (Emerald Rapids)	AMD EPYC 9004 / 9005	3rd Gen Intel® Xeon® Scalable Processors (Xeon® Ice Lake) LGA4189 Socket
Chipset		N/A	N/A	Intel® C741 PCH chipset	N/A	Intel® C621A PCH Chipset
System Memory		4x DDR4 DIMM Up to 3200MHz, Max. 256GB RDIMM or 512GB LRDIMM	16x DDR5 RDIMMs up to 6400 MHz, Max. 256 GB per CPU	16x DDR5 RDIMM Up to 5200MHz, Max. 256GB	12x DDR5 RDIMM Up to 4800MHz, Max. 384GB	16x DDR4 RDIMMs Up to 3200MHz, Max. 512GB RDIMM
Ethernet	On-board	4x 25GbE SFP28 ports (Intel® E823-C)	2x Intel® I210-AT GbE	2x Intel® I210-AT GbE	2x Intel® I210-AT GbE	2x Intel® I210-AT GbE
	Bypass	N/A	Depending on IBN Module SKU	Depending on IBN module SKU	Depending on IBN module SKU	Depending on IBN module SKU
	NIC Module	N/A	NIC SKU - module slots: Max. 8x IBN cards, Max. 64 GbE SHQ SKU – Max. 4x IBN cards, Max 32GbE	8x IBN series, Max. 64GbE port	8x IBN series, Max. 64GbE port	8x IBN series, Max. 64GbE port
Expansion		1x PCI-E x16 Expansion slot (Optional by SKU) 1x PCI-E x8 Expansion slot (Optional by SKU)	1x PCI-E x16 expansion slot 1x M.2 (M+B-Key) supports SATA 3.0 or PCI-E	1x PCI-E x16 slot 1x M.2 (M-Key) supports SATA 3.0 or PCI-E	1x PCI-E x16 slot 1x M.2 (M-Key) supports SATA 3.0 or PCI-E	1x PCI-E x16 slot (8-lane) 1x M.2 (M-Key) supports SATA 3.0 or PCI-E
Storage		1x 16GB/32GB/64GB eMMC 2x M.2(M-Key); supports SATA & PCI-E 2x 2.5" SATA/ NVMe/ hot-Swappable HDD/SSD	U.3 NVMe SSD: 12x 2.5" Swappable (by SHQ SKU) SATA SSD: 2x 2.5" Internal (by NIC SKU) 1x M.2 NVME 2280 1x SATA DOM	2x 2.5" Swappable (by NIC SKU) 8x 2.5" swappable SATA or NVMe drive bay (by NIC SKU) 1x M.2 NVME 2280 1x SATA DOM	2x 2.5" or 4x 3.5" swappable SATA drive bay (by SKU)	2x 2.5" or 4x 3.5" swappable SATA drive bay (by SKU) 2x U.2 (PCI-E, SATA signal)
Display		1x VGA (optional IPMI module)	1x VGA (optional IPMI module) 1x LCM (by SHQ SKU)	1x VGA (optional IPMI module) 1x LCM	1x VGA (optional IPMI module) 1x LCM (by SKU#)	1x VGA (optional IPMI module) 1x LCM (by SKU#)
TPM		TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
I/O	Console	1x RJ45	1x RJ45	1x RJ45	1x RJ45	1x RJ45
	Reset	N/A	N/A	1x Factory default (GPIO)	1x Factory default (GPIO)	1x Factory default (GPIO)
	USB	2x USB 3.0	2x USB 3.0	2x USB 2.0	2x USB 2.0	2x USB 2.0
	LED	Power/ HDD/ Status	Power/ HDD/ Status	Power / HDD / Status	Power / HDD / Status	Power / HDD / Status
Power Supply		Full-range 1+1 550W CRPS Redundant Power Supplies	Full-range 1600W 1+1 redundant power supply	Full-range 1600W 1+1 redundant power supply	Full-range 1200W 1+1 redundant power supply	Full-range 1200W 1+1 redundant power supply
Dimensions (mm)		438(W) x 420(D) x 43.8(H)	438(W) x 660(D) x 87.5(H) mm	438 (W) x 660 (D) x 87.5 (H)	438 (W) x 660 (D) x 88 (H)	438 (W) x 660 (D) x 88 (H)
Weight		15 kg (33 lbs)	24Kg (52 lbs)	24Kg (52 lbs)	21.0 kg (46.3 lbs)	21.0 kg (46.3 lbs)
Operating Temperature		0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature		-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)
Relative Humidity		5 ~ 95%	5 ~ 90%	5 ~ 90%	5 ~ 90%	5 ~ 90%
Certification		CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC
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Comparison Table



Coming soon

Coming soon



Model		INA7303	INA7302	INA3609	INA3608
Form Factor		1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount
CPU		6th Gen Intel® Xeon® Scalable Processors (Xeon® Granite Rapids-D HCC) FCBGA4368	AMD Ryzen™ 7000 series AM5 LGA1718	14th Gen Intel® Core i Processors (Barlett Lake) LGA1700	13th Gen Intel® Core i Processors LGA1700 Socket
Chipset		N/A	AMD B650 PCH	Intel®PCH R680E	Intel® PCH R680E
System Memory		4x DDR5 RDIMM Up to 6400Mhz Max. 96GB	2x DDR5 UDIMM Up to 5600MHz Max. 128GB	2x DDR5 UDIMM Up to 4800MHz, Max. 128 GB	2x DDR5 UDIMM Up to 4800 MT/s, Max. 128 GB UDIMM
Ethernet	On-board	2x Intel® I210-AT GbE 4x 10GbE	1x 2.5GbE RJ45 (Intel® I210V) 4x 1GbE RJ45 (Intel® I350-AM4) 2x 10GbE RJ45 (Intel® E610-XAT2)	4x 2.5GbE RJ45 ports (Intel® i226V) 4x 1GbE SFP ports (Intel® i210IS) 2x 10GbE SFP+ (Intel® X710)	4x 2.5GbE RJ45 ports (Intel® i226V) 4x 1GbE SFP ports (Intel® i210IS) 2x 10GbE SFP+ (Intel® X710)
	Bypass	Depending on IBN module SKU	Depending on IBN module SKU	1x segments Lan 3/4	1x segment
	NIC Module	3x IBN series (Depending on SKU)	1x PCI-E x8 golden finger for NIC module	1x PCI-E x8 golden finger for NIC module	1x PCI-E(x8) golden finger for NIC module
Expansion		1x PCI-E x8 Slot (Depending on SKU) 2x M.2 (B+M Key)	1x PCI-E x16 golden finger for NIC module (Expansion slot usage can support Gen5 x16, if NIC Module is in use, it will render both slots to PCI-E Gen5 x8)	1x PCI-E x8 golden finger for NIC module	1x PCI-E Gen5(x8) (for SSL card) 1x PCI-E Gen5(x8) (for IBN Module)
Storage		2x M.2 (B+M Key)	HDD/SSD: 1x 2.5" Internal 2x M.2 NVME (2242/2280) 1x SATA DOM	1x 2.5" HD 1x SATA DOM 1x 2280 M.2 Slot	1x 2.5" HDD 1x SATA DOM 1x 2280 M.2 slot
Display		1x VGA (optional IPMI module)	1x LCM	1x LCM	1x LCM
TPM		TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
I/O	Console	1x RJ45	1x RJ45	1x RJ45	1x RJ45
	Reset	1x Factory default (GPIO)	1x Factory default (GPIO)	1x Factory default (GPIO)	1x Factory default (GPIO)
	USB	2x USB3.2	2x USB 3.0	2x USB 3.0	2x USB 3.0
	LED	Power / HDD / Status	Power / HDD / Status	Power / HDD / Status	Power / HDD / Status
Power Supply		Full-range 800W 1+1 redundant power supply	700W 1+1 Redundant Power Supply	600W 1+1 Redundant Power Supply 500W Single Power Supply	600W 1+1 redundant power supply 500W single power supply
Dimensions (mm)		TBD	438 (W) x 450 (D) x 44 (H) mm	438 (W) x 420 (D) x 44 (H) mm	438(W) x 420(D) x 44(H)
Weight		TBD	N/A	12.0Kg (26.4lbs)	N/A
Operating Temperature		0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 50°C (32°F ~ 104°F)	0°C ~ 50°C
Storage Temperature		-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C
Relative Humidity		5 ~ 90%	10 ~ 95%	10 ~ 95%	10 ~ 90%
Certification		CE/FCC	CE/FCC	CE/FCC	CE/FCC
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Comparison Table



INA3606	INA3605	INA3604	INA3600	FWA8506
1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount
12th Gen Intel® Core i Processors LGA1700 Socket	LGA1200 Socket for Intel® Xeon® E-2300 Processors	LGA1200 Socket for Intel® Xeon® E-2300 Processors	Intel® Xeon® Comet Lake-W	Intel® Atom® C3758 Processor up to 2.2GHz
Intel® PCH R680E	Intel® C252 PCH chipset	Intel® C252 PCH chipset	Intel® W480E PCH chipset	N/A
2x DDR5 UDIMM Up to 4800 MT/s, Max. 128 GB UDIMM	2x DDR4 UDIMMs Max. 64GB	2x DDR4 UDIMMs Max. 64GB	2x DDR4 DIMMs up to 2400MHz, 1x DIMMs, Max. 64GB (Non-ECC)	2x DDR4 DIMMs up to 2400MHz, Max. 64GB RDIMM, Max. 32GB UDIMM (ECC/non-ECC)
4x 2.5GbE RJ45 ports (Intel® i226V) 4x 1GbE SFP ports (Intel® i210IS) 2x 10GbE SFP+ (Intel® X710)	6x GbE RJ45 Ports (Intel® i226V) with 2 pairs bypass 2x GbE SFP port (Intel® i210IS)	6x GbE RJ45 Ports (Intel® i226V) with 2 pairs bypass 2x GbE SFP port (Intel® i210IS)	6x Intel® I210-AT GbE	6x Intel® I211-AT GbE 1x Inphi CS4223 for 4x10GbE SFP+
1x segment	2-Segments, LAN3/4 & 5/6	2-segments, LAN3/4 & 5/6	2x segments	2x segments
1x PCI-E(x8) golden finger for NIC module	1x PCI-E x8 golden finger for NIC module	1x PCI-E x8 golden finger for NIC module	1x PCI-E x8 golden finger for NIC module	N/A
1x PCI-E Gen5(x8) (for SSL card) 1x PCI-E Gen5(x8) (for IBN Module)	1x PCI-E x8 golden finger for NIC module	1x PCI-E x8 golden finger for NIC module	1x PCI-E x8 slot	1x PCI-E x8 slot (4-lane)
1x 2.5" HDD 1x SATA DOM 1x 2280 M.2 slot	4x hot-swappable 3.5" SATA HDD/SSD storage - Optionally supports NVMe drives with LSI RAID controller (Suggested RAID Controller: LSI MegaRAID 9560-16i supporting RAID 0, 1, 5, 6, 10, 50 and 60) - Optional supporting HDD drives with LSI RAID controller (Suggested RAID Controller: LSI MegaRAID 9540-8i supporting RAID 0, 1, 10)	1x SATA DOM 1x internal 2.5" SATA SSD/HDD	3x SATA data connectors 3x SATA power connectors 3x 2.5" internal	2x 2.5" SATA drive bays 1x CF slot
1x LCM	N/A	1x LCM	1x VGA pin-header (via DP to VGA Bridge; CH7517A- BF) 1x LCM	1x LCM
TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0	TPM 1.2
1x RJ45	1x RJ45	1x RJ45	1x RJ45	1x RJ45
1x Factory default (GPIO)	1x Factory default (GPIO)	1x Factory default (GPIO)	1x Factory default (GPIO)	1x Factory default (GPIO)
2x USB 3.0	2x USB 3.2	2x USB 3.2	2x USB 3.1	2x USB 3.0
Power / HDD / Status	Power / HDD / Status	Power / HDD / Status	Power / HDD / Status	Power / HDD / Status
600W 1+1 redundant power supply 500W single power supply	Full-range 600 watt redundant Power Supply	Full-range 500W single power supply	Full-range 250 watt single AC power supply	Full-range 250W ATX power supply
438(W) x 420(D) x 44(H)	438 (W) x 630 (D) x 44 (H) mm	438 (W) x 384.2 (D) x 44 (H) mm	438(W) x 329(D) x 44(H) ± 0.3mm	438 (W) x 340 (D) x 44 (H)
N/A	17.6 kg (30.8 lbs)	7.5 kg (16.53 lbs)	9.0 kg (19.8 lbs)	6.50 kg (14.33 lbs)
0°C ~ 50°C	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
-20° ~ 70°C	-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)	-20° ~ 70°C (-4°F ~ 158°F)
10 ~ 90%	10 ~ 95%	10 ~ 95%	5 ~ 90%	5 ~ 90%
CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC
p. 29	p. 25	p. 26	p. 32	p. 30 - 31

Comparison Table



Model		INA2205	AGS103T	INA1607	INA1600
Form Factor		1U Rackmount	Desktop	Desktop	Desktop
CPU		Intel® Alder Lake-N / Intel® Amston Lake processors	Intel® Atom® x6413E/ x6211E Processors	Intel® Amston Lake x7405C	AMD Ryzen™ Embedded V1605B/ R1505G
Chipset		N/A	N/A	N/A	N/A
System Memory		1x DDR5 SO-DIMM (Non-ECC) Up to 4800MHz Max. 16GB	1x DDR4 SO-DIMM, Max. 16GB	1x DDR5 SO-DIMMs Up to 4800MHz, Max. 16GB (ECC/non-ECC)	2x DDR4 SO-DIMMs up to 3200MHz, Max. 32GB (ECC/non-ECC)
Ethernet	On-board	6x Intel® I226V 2.5GbE 2x Intel® I210IS GbE SFP	3x Intel® I225IT 2.5G GbE LAN	4x Intel® I226-V 2.5 GbE 1x Intel® i350-AM4 (2x GbE RJ45 and 2x GbE SFP)	INA1600V: 4x Intel® I211-AT GbE 1x Intel® i350-AM2 (2x GbE RJ45 or SFP combo ports) INA1600R: 4x Intel® I211-AT GbE
	Bypass	1x segment	N/A	1x segment	1x segment
	NIC Module	N/A	N/A	N/A	N/A
Expansion		N/A	1x Full-size Mini PCI-E socket (USB 2.0) 1x Full-size Mini PCI-E socket (USB 2.0 + SATA) 1x M.2 B-Key socket (USB 3.0 + PCI-E)	1x Mini PCI-E slot 1x M.2 slot (B-Key 3042 and 3052, PCI-E(x1) & USB 3.0 signal) for LTE/5G 2x Micro SIM for M.2 LTE/5G module 1x M.2 slot (B-Key 3042 and 3080) for SATA, PCI-E for storage	1x Mini PCI-E slot 1x M.2 slot (B-Key 3042, PCI-E(x1) & USB 3.0 signal) 2x Micro SIM for M.2 or Mini PCI-E 4G/LTE module 1x M.2 slot (B/M-Key 3080, PCI-E(x2) & USB 3.0 & SATA)
Storage		1x 2.5" SATA SSD/HDD 1x 2242 M.2 SATA	1x mSATA	1x 2.5" SATA drive bay 1x 16GB/32GB/64GB eMMC	1x 2.5" SATA drive bay
Display		1x LCM	1x HDMI 1x DVI-I	N/A	1x DisplayPort
TPM		TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
I/O	Console	1x RJ45	4x DB-9	1x RJ45	1x RJ45
	Reset	1x Factory default (GPIO)	N/A	1x Factory default (GPIO)	1x Factory default (GPIO)
	USB	2x USB 3.0	2x USB 3.1 2x USB 2.0	2x USB 3.0	2x USB 3.0
	LED	Power / HDD / Status	Power / GPIO / WLAN / WWAN	Power / HDD / Status	Power / HDD / Status
Power Supply		Full range 65W power supply (Open Frame)	Full-range 60W adaptor / 12V	Full-range 84W adaptor / 12V	Full-range 84W adaptor / 12V
Dimensions (mm)		438 (W) x 180 (D) x 43.5 (H)	190 (W) x 110 (D) x 52 (H)	210 (W) x 231 (D) x 44 (H)	250 (W) x 231 (D) x 44 (H)
Weight		6.0 kg (13.22 lbs)	1.2kg (2.64 lbs)	2.4 kg (5.2 lbs)	5.3 kg (11.68 lbs)
Operating Temperature		0°C ~ 40°C (32°F ~ 104°F)	-20° ~ 70°C (-4°F ~ 158°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature		-20° ~ 70°C	-40°C~85°C (-40°F~185°F)	-20°C ~ 70°C (-4°F ~ 158°F)	-20°C ~ 70°C (-4°F ~ 158°F)
Relative Humidity		10 ~ 90%	5 ~ 90%	5% ~ 90%	5 ~ 90%
Certification		CE/FCC	CE/FCC/LVD (pre-scan)	CE/FCC	CE/FCC
Page No.		p. 33	p. 34	p. 35	p. 36



Features

- Intel® Xeon® D-2700 Processor
- 4x DDR4 DIMMs, Max. 256GB RDIMM or Max. 512GB LRDIMM
- 4x 25GbE SFP28 ports on board
- 2x 2.5" SATA/NVMe hot-swappable HDD/SSD
- Optional for one card:
1x PCI-E (x16) Gen4 single-slot for double FHFL interfaces, passive cooling, up to 120W
- For two cards:
1x PCI-E (x16) Gen4 single-slot + 1x PCI-E (x8) Gen4 FHFL interfaces, passive cooling, up to 75W each
- Optional IPMI 2.0 module
- GPS time synchronization
- Supports SyncE and PTP IEEE 1588

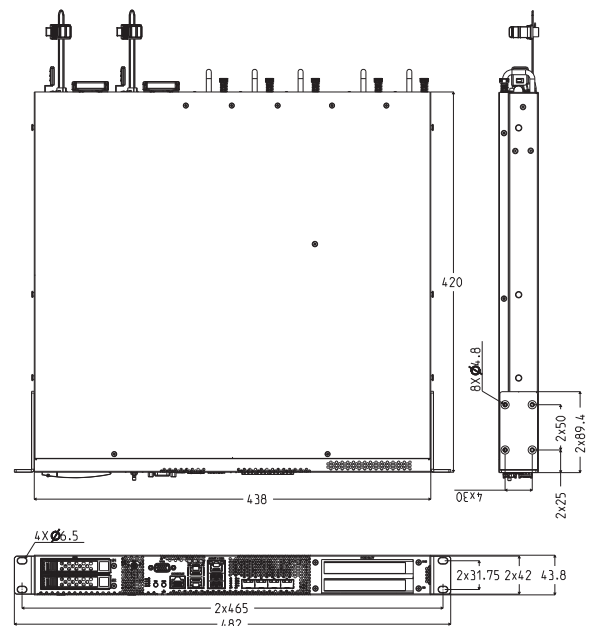
Ordering Information

INA8505	INA8505 Enterprise 1U Edge Server, MBN8505 Intel® Xeon® D-2700 Processor, 4x DDR4 DIMMs, 4x 25 GbE SFP28 ports, 550W CRPS 1+1 Redundant PSU, CPU cooler, optional IPMI, 1x PCI-E x16 slot, 1x PCI-E x8 slot, 2x 2.5" SDD Tray, Barebone without RAM/HDD/SSD
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Accessories

PK1-51	Console cable, 160cm
VGA21A	VGA cable, 40cm

Dimensions



Specifications

CPU	Intel® Xeon® D-2700 Processor
Chipset	N/A
Memory	4x DDR4 DIMMs, Max. 256GB RDIMM or 512GB LRDIMM, up to 3200MHz
Display	1x VGA (via optional IDN101 IPMI module)
Ethernet	4x 25 GbE SFP28 ports (Intel® E823-C)
Bypass	N/A
Expansion	1x PCI-E x16 Expansion slot (optional by SKU) 1x PCI-E x8 Expansion slot (optional by SKU)
IPMI	Optional module; compliant with IPMI 2.0
Storage	1x 16GB/32GB/64GB eMMC 2x M.2 (M-Key); supports SATA & PCI-E 2x 2.5" SATA/ NVMe/ hot-swappable HDD/SSD
TPM	TPM 2.0 (optional TPM 2.0 module)
I/O	3x LED (Power/ HDD/ Status) 1x RJ45 console port 1x RJ45 management port 2x USB 3.0 ports
Power Supply	Full-range 550W CRPS 1+1 redundant power supply
Dimensions	438(W) x 420(D) x 43.8(H) mm 17.24" (W) x 16.54" (D) x 1.72" (H)
Weight	15 kg (33.06 lbs) (estimated)
Operating Temperature	0°C ~ 50°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5% ~ 90%
Certification	CE/FCC



Features

- Dual Intel® Xeon® SP XCC Processors (formerly Granite Rapids)
- 16x DDR5 6400 MHz ECC RDIMM
- 1x PCI-E Gen 5.0 x16 FHFL expansion
- Optional IPMI 2.0 support
- 1600W/2000W AC 1+1 redundant power supplies
- Up to 8x IBN modules or 12x 2.5" HDD with 4x IBN modules

Specifications

CPU	Dual 6th Gen Intel® Xeon® Scalable Processors XCC LGA4710 (Granite Rapids SP)
Chipset	N/A
Memory	16x DDR5 RDIMMs up to 6400 MHz, Max. 256 GB per CPU
Display	1x VGA (via optional IDN101 module)
Ethernet	Onboard: 2x Intel® I210-AT GbE NIC SKU - module slots: Max. 8x IBN cards, Max. 64 GbE SHQ SKU - Max. 4x IBN cards, Max 32GbE
Bypass	Via IBN module SKU
Expansion	1x PCI-E x16 expansion slot 1x M.2 (PCI-E, SATA)
IPMI	Optional module, compliant with IPMI 2.0
Storage	U.3 NVMe SDD: 12x 2.5" Swappable (by SHQ SKU) SATA SSD: 2x 2.5" Internal (by NIC SKU) 1x M.2 NVME 2280 1x SATA DOM
TPM	TPM 2.0
I/O	1x LCM 3x LED (Power / HDD / Status) 1x RJ45 console 2x USB 3.0 2x MGMT ports (LAN2 shared with IPMI NC-SI port)
Power Supply	Full-range 1600W 1+1 redundant power supply
Dimensions	438(W) x 660(D) x 87.5(H)mm 17.24" (W) x 25.9" (D) x 3.44" (H)
Weight	24kg
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20° ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5% ~ 90%
Certification	CE/FCC

Ordering Information

INA7609-SHQ	2U Rackmount Appliance, MBN7609 Intel Granite Rapids SP XCC Rapids Processor, 16x DDR5 RDIMM, 1600W Redundant PSU, CPU cooler, 12x 2.5" external U.3 NVMe SDD, 4x IBN expansion slot, Barebone without RAM/HDD/drive bay kit
INA7609-NIC	2U Rackmount Appliance, MBN7609 Intel Granite Rapids SP XCC Rapids Processor, 16x DDR5 RDIMM, 1600W Redundant PSU, CPU cooler, 2x 2.5" internal SATA SDD, 8x IBN expansion slot, Barebone without RAM/HDD/drive bay kit

Accessories

PK1-51	Console cable, 160cm
IDN101	IPMI 2.0 module (Option)
VGA21A	VGA cable, 40cm (Option)

INA7605

Rackmount Network Appliance

Performance 2U Network Appliance with Dual Intel® Xeon® Scalable Processors & up to 64 GbE Ports



Features

- Dual 5th Gen Intel® Xeon® Scalable Processors
- 16x DDR5 RDIMM, Max. 1,024GB
- Max. 8x NIC modules; Max. 64 GbE ports (optional)
- Max. 8x 2.5" HDD Swappable
- Optional IPMI 2.0 module
- 1x PCI-E (x16) expansion slot
- 2x 1600W redundant power supply

Specifications

CPU	Dual 5th Gen Intel® Xeon® Scalable Processors LGA4677 (Emeralds Rapids)
Chipset	Intel® C741 PCH chipset
Memory	16x DDR5 RDIMMs up to 5200 MT/s, Max. 1,024GB
Display	1x VGA (via optional IDN101 module) 1x LCM
Ethernet	Onboard: 2x Intel® I210-AT GbE NIC module slots: Max. 8x IBN cards, Max. 64 GbE
Bypass	Via IBN module SKU
Expansion	1x PCI-E x16 expansion slot 1x M.2 (PCI-E, SATA)
IPMI	Optional module, compliant with IPMI 2.0
Storage	2x 2.5" Swappable (by NIC SKU) 8x 2.5" swappable SATA or NVMe drive bay (by NIC SKU) 1x M.2 NVMe 2280 1x SATA DOM
TPM	TPM 2.0
I/O	1x LCM 3x LED (Power / HDD / Status) 1x RJ45 console 2x USB 2.0 2x MGMT ports (LAN2 shared with IPMI NC-SI port)
Power Supply	Full-range 1600W 1+1 redundant power supply
Dimensions	438(W) x 660(D) x 87.5(H)mm 17.24" (W) x 25.9" (D) x 3.44" (H)
Weight	24kg
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20° ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5% ~ 90%
Certification	CE/FCC

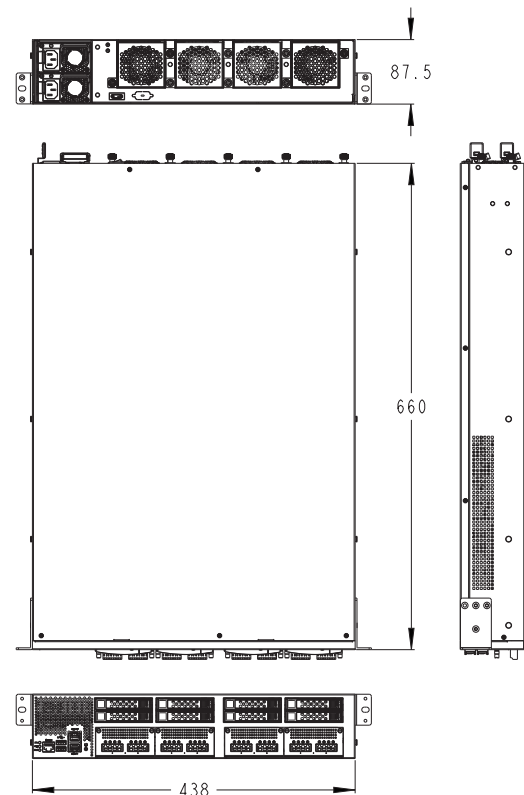
Ordering Information

INA7605-SHQ	2U Rackmount Appliance, MBN7605 Intel Emerald Rapids Processor, 16x DDR5 RDIMM, 1600W Redundant PSU, CPU cooler, 8x 2.5" external HDD, 4x IBN expansion slot, Barebone without RAM/HDD/drive bay kit
INA7605-NIC	2U Rackmount Appliance, MBN7605 Intel Emerald Rapids Processor, 16x DDR5 RDIMM, 1600W Redundant PSU, CPU cooler, 2x 2.5" internal HDD, 8x IBN expansion slot, Barebone without RAM/HDD/drive bay kit

Accessories

PK1-51	Console cable, 160cm
IDN101	IPMI 2.0 module (Option)
VGA21A	VGA cable, 40cm (Option)

Dimensions





Features

- Dual 3rd Gen Intel® Xeon® Scalable Processors (Xeon® Ice Lake)
- 16x DDR4 RDIMM, Max. 512GB
- 8x or 4x NIC modules, Max. 64 GbE ports
- 1x PCI-E (x16) expansion slot
- 1200W redundant power supply

Specifications

CPU	3rd Gen Intel® Xeon® Scalable Processors (Xeon® Ice Lake) LGA4189 Socket
Chipset	Intel® C621A PCH Chipset
Memory	16x DDR4 RDIMMs Up to 3200MHz Max. 512GB (ECC)
Display	1x VGA
Ethernet	2x Intel® I210-AT GbE on IDN901 daughter board 8x or 4x NIC module, Max. 64 GbE ports
Bypass	Via IBN module SKU
Expansion	1x PCI-E x16 slot (8-lane) 1x M.2 (M-Key) supports SATA 3.0 or PCI-E
IPMI	N/A
Storage	2x 2.5" or 4x 3.5" Swappable SATA drive bay (by SKU) 2x U.2 (PCI-E x4, SATA signal)
TPM	TPM2.0
I/O	1x LCM (by SKU) 3x LED (Power/ HDD/ Status) 1x Factory default button (GPIO) 1x RJ45 console 2x USB 2.0 2x MGMT ports (LAN2 shared with IPMI NC-SI port)
Power Supply	Full-range 1200W 1+1 redundant power supply
Dimensions	438 (W) x 660 (D) x 88 (H) mm 17.24" (W) x 25.98" (D) x 3.46" (H)
Weight	21.0 kg (46.3 lbs)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20° ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5 ~ 90%
Certification	CE/FCC

Ordering Information

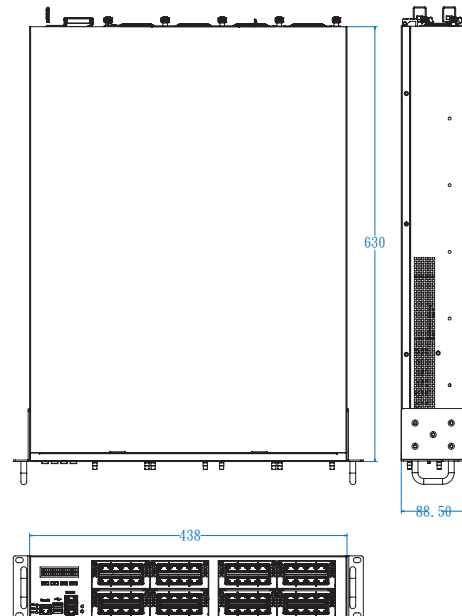
INA7600-NIC	INA7600-NIC 2U Rackmount Appliance, MBN901 Dual 3rd Gen Intel® Xeon® ICL-SP, C621A PCH, 16x DDR4 DIMMs, Max. 66 GbE Ports, 1200W RPSU, CPU cooler, 1x PCI-E x16 slot, 2x U.2 slots, 1x iLO2 LCM. Barebone without CPU/RAM/HDD/IBN Card* (Must order 8x IBN-cards)
INA7600-SHQ	INA7600-SHQ 2U Rackmount Appliance, MBN901 Dual 3rd Gen Intel® Xeon® ICL-SP, C621A PCH, 16x DDR4 DIMMs, Max. 34 GbE Ports, 1200W RPSU, CPU cooler, 1x PCI-E x16 slot, 2x U.2 slots, 4x 3.5" HDD Tray. Barebone without CPU/RAM/HDD/IBN Card* (Must order 4x IBN-cards)

* For a complete system, IBN modules & some components must be ordered.

Accessories

PK1-51	Console cable, 160cm
VGA21A	VGA cable, 40cm

Dimensions

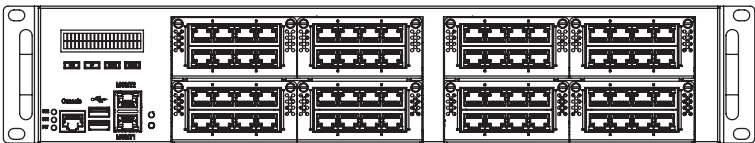


Optional Component BOM

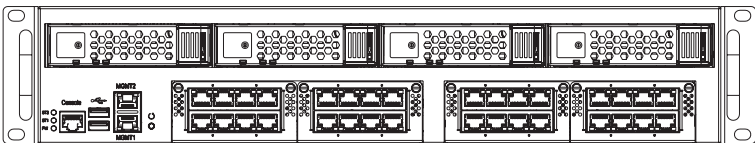
Component BOM	Configuration Options	
Model Kit	Front IOs	Remarks
INA7600 KIT1	INA7600-NIC: 8 NIC slots with internal max. 2x 2.5" drive bay	For a complete system, component BOM, the IBN module tray must be ordered.
INA7600 KIT2	INA7600-SHQ: 4 NIC slots with swappable 4x 3.5" driver bay	

Front I/O

INA7600-NIC



INA7600-SHQ





Features

- AMD EPYC™ 9004 Series
- 12x DDR5 RDIMM; Max. 384GB
- Up to 8x IBN Module or 4x 3.5" HDD with 4x IBN Module
- 2x 2.5" Internal HDD
- 1x PCI-E FH/FL
- Supports Broadcom RAID controller card 9560-16i

Specifications

CPU	AMD EPYC™ 9004 Series (96 Cores, 2.4GHz)
Chipset	N/A
Memory	12x DDR5 RDIMM 4800MHz, Max. 384GB
Display	SKU A: N/A SKU B: 1x LCM 1x VGA (via optional IDN101 module)
Ethernet	1x Intel® I210 1x Intel® I226 NIC module slots: Max. 8x IBN cards, Max. 64 GbE
Bypass	Via IBN module SKU
Expansion	1x PCI-E 16x slot (4 lane) SKU A: 4x NIC module slot SKU B: 8x NIC module slot
IPMI	Optional
Storage	1x M.2 slot (2242 or 2280) 1x SATA DOM SKU 1 – 4x 3.5" HDD SKU 2 – 2x 2.5" HDD internal drive bay
TPM	TPM 2.0
I/O	3x LED (Power / HDD / Status) 1x RJ45 console 2x Management port 2x USB 3.0
Power Supply	Full-range 1200W 1+1 Redundant power supply
Dimensions	438 mm (W) x 660 mm (D) x 88.5 mm (H)
Weight	21 Kg
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5 ~ 90%
Certification	CE/FCC

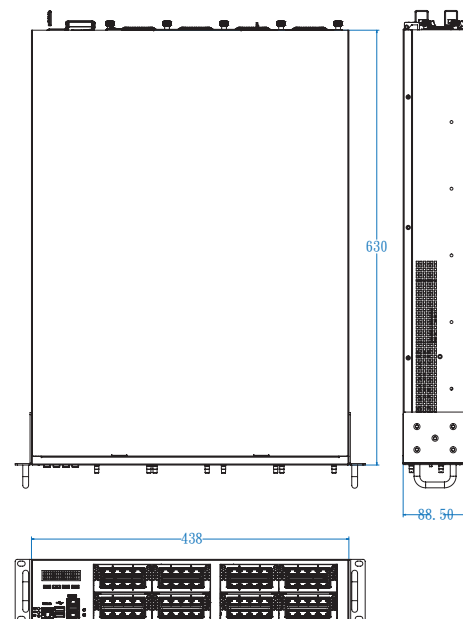
Ordering Information

INA7602-SHQ	2U Rackmount Appliance, MBN902 AMD EPYC™ 9004, 12x DDR5 RDIMM, 1200W Redundant PSU, CPU cooler, 4x 3.5" external HDD, 4x IBN expansion slot, Barebone without RAM/HDD/drive bay kit*
INA7602-NIC	2U Rackmount Appliance, MBN902 AMD EPYC™ 9004, 12x DDR5 RDIMM, 1200W Redundant PSU, CPU cooler, 2x 2.5" internal HDD, 8x IBN expansion slot, Barebone without RAM/HDD/drive bay kit*

Accessories

PK1-51	Console cable, 160cm
IDN101	IPMI 2.0 module (Option)
VGA21A	VGA cable, 40cm (Option)

Dimensions





Features

- AMD Ryzen™ 7000 series with B650 PCH
- 2x DDR5 ECC UDIMM, Max. 128GB
- 1x 2.5GbE RJ45 ports on board
- 4x 1.0GbE RJ45 ports on board
- 2x 10GbE RJ45 ports on board
- Optional NIC slot
- 1x PCI-E (x8/x16) expansion slot
- 700W 1+1 redundant power supplies

Specifications

CPU	AMD Ryzen™ 7000 series AM5 LGA1718
Chipset	AMD B650 PCH
Memory	2x DDR5 ECC UDIMMs up to 5600 MT/s, Max. 128GB
Display	1x Display Port 1x LCM
Ethernet	1x 2.5GbE RJ45 (Intel® I210V) 4x 1GbE RJ45 (Intel® I350-AM4) 2x 10GbE RJ45 (Intel® E610-XAT2) 1x IBN cards 1x HLHF PCIE card
Bypass	Via IBN module SKU
Expansion	1x PCI-E x16 expansion slot#1 (Slot#1 usage can support Gen5x16, Duo slot usage will render both slots to PCI-E Gen5x8) 1x PCI-E x8 expansion slot#2 2x M.2 (PCI-E Only)
IPMI	Optional module, compliant with IPMI 2.0
Storage	HDD/SSD: 1x 2.5" Internal 2x M.2 NVME (2242/2280) 1x SATA DOM
TPM	TPM 2.0
I/O	1x LCM 3x LED (Power / HDD / Status) 1x RJ45 console 2x USB 3.0 1x MGMT port
Power Supply	Full-range 700W 1+1 redundant power supply
Dimensions	438(W) x 450(D) x 44.5(H)mm
Weight	N/A

Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20° ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5% ~ 90%
Certification	CE/FCC



Features

- Dual 6th Gen Intel® Xeon® processor (Granite Rapids-D)
& up to 200 GbE Ports
- 4x DDR5 6400MHz, RDIMM
- 2x IBN modules
- 2x 100GbE QSFP28 ports on board
- 2x M.2 support NVMe, RAID
- 2x USB 3.2
- 1x PCI-E 5 x8 expansion slot supports Nvidia A2 card or 1x IBN module
- 800W 1+1 redundant power supplies

Ordering Information

INA7303	1U Rackmount Appliance, MBN7303 Intel® Granite Rapids-D HCC Processor, 4x DDR5 RDIMM, 2x 100GbE QSFP28 ports, 2x M.2 2280/2242, 800W 1+1 Redundant PSU, 1x IBN expansion slot, Barebone w/o CPU/DIMM and IBN module
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Specifications

CPU	Dual 6th Gen Intel® Xeon® SoC HCC Processors FCBGA4368 (Granite Rapids-D)
Chipset	N/A
Memory	4x DDR5 RDIMMs up to 6400 MT/s, Max. 96GB
Display	1x VGA (via optional IDN101 module)
Ethernet	Onboard: 2x 100Gb QSFP28 NIC module slots: Max. 2x IBN cards, Max. 200 GbE
Bypass	Via IBN module SKU
Expansion	Supports Nvidia A2 card or 1x IBN module
IPMI	Optional module, compliant with IPMI 2.0
Storage	2x M.2 NVME 2280 or 2242
TPM	TPM 2.0
I/O	3x LED (Power / HDD / Status) 1x RJ45 console 2x USB 3.2 2x MGMT ports
Power Supply	Full-range 800W 1+1 redundant power supply
Dimensions	438(W) x 550(D) x 44(H)mm
Weight	TBD
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20° ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5% ~ 90%
Certification	CE/FCC



Features

- Intel® Xeon® E-2300 Processors with C252 PCH
- 2x DDR4 UDIMM / RDIMM, Max. 64GB (ECC)
- 6x RJ45 GbE with 2 pairs bypass on board
- 2x GbE SFP ports on board
- Optional NIC slot
- 4x U.3 storage on the front
- SATA/NVMe SSD with RAID 0,1,5,6,10,50,60 support through LSI RAID controller
- 1x PCI-E (x8) expansion slot
- 600W AC redundant power supplies

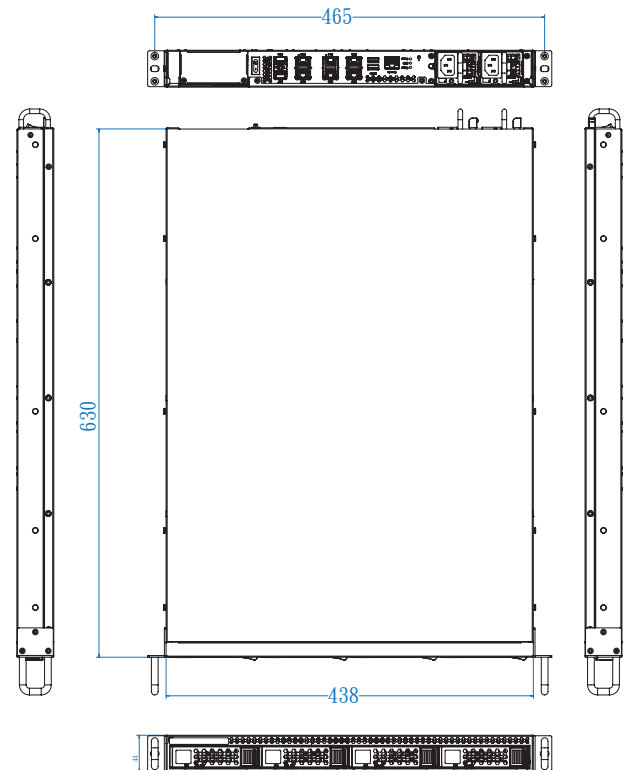
Specifications

CPU	LGA1200 Socket for Intel® Xeon® E-2300 Processors
Chipset	Intel® C252 PCH chipset
Memory	2x DDR4 UDIMMs Max. 64GB
Display	N/A
Ethernet	6x GbE RJ45 Ports(Intel i226V) with 2 pairs bypass 2x GbE SFP port (Intel i210IS)
Bypass	2-Segments, LAN3/4 & 5/6
Expansion	1x PCI-E(x8) slot (8-lane) for INA3605
IPMI	N/A
Storage	4x hot-swappable 3.5" SATA HDD/SSD storage - Optional support for NVMe drives with LSI RAID controller (Suggested RAID Controller: LSI MegaRAID 9560-16i supporting RAID 0, 1, 5, 6, 10, 50 and 60) - Optional support for HDD drives with LSI RAID controller (Suggested RAID Controller: LSI MegaRAID 9540-8i supporting RAID 0, 1, 10)
TPM	TPM 2.0
I/O	3x LED (Power/ HDD/ Status) 1x Reset button 1x RJ45 console 2x USB3.2
Power Supply	Full-range 600 Watt redundant Power Supply
Dimensions	438 (W) x 630 (D) x 44 (H) mm 17.24" (W) x 24.8" (D) x 1.73" (H)
Weight	17.6 kg (30.8 lbs)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20° ~ 70°C (-4°F ~ 158°F)
Operating Humidity	10~ 95%
Certification	CE/FCC

Ordering Information

INA3605	INA3605 1U Rackmount Appliance, MBN808 Intel® RKL-E, C252 PCH, 2x DDR4 DIMMs, Max. 16 LAN ports, 600W 1+1 PSU, CPU cooler, 1x PCI-E(x8) slot, Barebone without CPU/RAM/HDD/IBN card
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Dimensions





Features

- Intel® Xeon® E-2300 Processors with C252 PCH
- 2x DDR4 UDIMM, RDIMM , Max. 64GB (ECC)
- 6x RJ45 GbE with 2 pairs bypass on board
- 2x GbE SFP ports on board
- Optional NIC slot
- 1x PCI-E (x8) expansion slot
- 500W AC single power supply

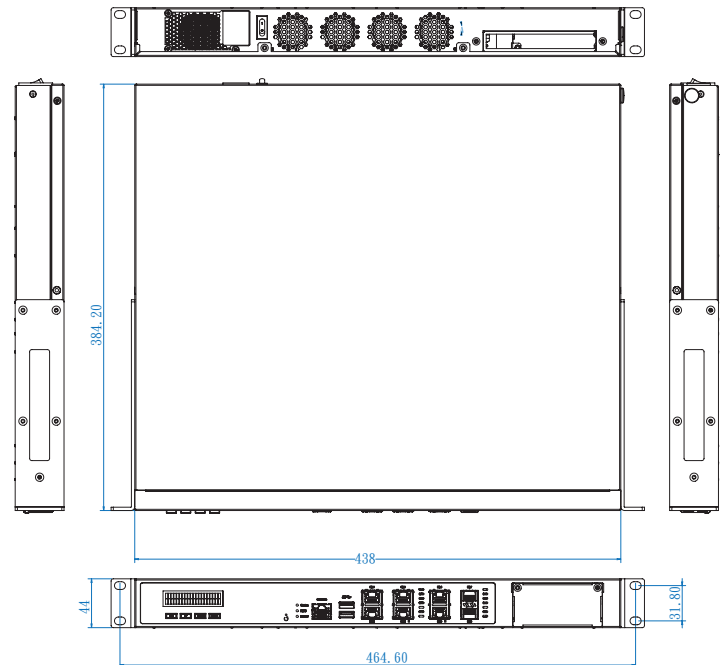
Specifications

CPU	LGA1200 Socket for Intel® Xeon® E-2300 Processors
Chipset	Intel® C252 PCH chipset
Memory	2x DDR4 UDIMMs Max. 64GB
Display	1x LCM
Ethernet	6x GbE RJ45 Ports (Intel i226V) with 2 pairs bypass 2x GbE SFP port (Intel i210IS)
Bypass	2-Segments, LAN3/4 & 5/6
Expansion	1x PCI-E(x8) slot (8-lane) for INA3604
IPMI	N/A
Storage	1x SATA DOM 1x internal 2.5" SATA SSD/HDD
TPM	TPM 2.0
I/O	1x LCM 3x LED (Power/ HDD/ Status) 1x Reset button 1x RJ45 console 2x USB3.2
Power Supply	Full-range 500W single power supply
Dimensions	438 (W) x 384.2 (D) x 44 (H) mm 17.24" (W) x 15.13" (D) x 1.73" (H)
Weight	7.5 kg (16.53 lbs)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20° ~ 70°C (-4°F ~ 158°F)
Operating Humidity	10~ 95%
Certification	CE/FCC

Ordering Information

INA3604	INA3604 1U Rackmount Appliance, MBN808 Intel® RKL-E, C252 PCH, 2x DDR4 DIMMs, Max. 16 LAN ports, 500W PSU, CPU cooler, 1x PCI-E(x8) slot, 1x LCM, Barebone without CPU/RAM/HDD/IBN card
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Dimensions





Features

- Supports 14th Gen Intel® Core™ Processors with PCH R680E
- 2x DDR5 UDIMM 4800MHz (ECC supported)
- 4x 2.5GbE RJ45 ports with 1 pair of bypass on board
- 4x 1GbE SFP on board
- 2x 10GbE SFP+ on board
- 1x M.2 2280 (SATA/NVMe) slot
- 1x PCI-E (x8) expansion slot
- Optional IBASE NIC expansion slot
- 600W 1+1 redundant power supplies

Specifications

CPU	14th Gen Intel® Core™ i Processors (Bartlett Lake) LGA1700 Socket
Chipset	Intel® PCH R680E
Memory	2x DDR5 UDIMM slots, up to 4800 MT/s, up to 128 GB
Display	N/A
Ethernet	4x 2.5GbE RJ45 ports (Intel® i226V) 4x 1GbE SFP ports (Intel® i210IS) 2x 10GbE SFP+ (Intel® X710)
Bypass	MCU control
Expansion	1x PCI-E Gen5 x8 (for SSL card) 1x PCI-E Gen5 x8 (for IBN module)
IPMI	N/A
Storage	2x 2.5" HDD bays 1x SATA DOM 1x M.2 2280 (SATA/NVMe) slot
TPM	TPM 2.0
I/O	1x LCM 3x LEDs (Status/HDD/Power) 1x RJ45 console 2x USB 3.0 1x Reset button 1x NMI button
Power Supply	600W 1+1 redundant power supplies
Dimensions	438(W) x 420(D) x 44(H) mm ± 0.3mm
Weight	N/A
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20° ~ 70°C
Operating Humidity	10% ~ 90%
Certification	CE/FCC

Ordering Information

INA3609	1U Rackmount Appliance, FML-900G-MB Intel® Bartlett Lake Core i, R680E PCH, 2x DDR5 UDIMM, 600W RPSU Barebone without CPU/RAM/HDD/IBN Card/SSL card
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Accessories

PK1-51	Console cable, 160cm
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Features

- 13th Gen Intel® Core™ Processors with PCH R680E
- 2x DDR5 UDIMM 4800MHz (ECC)
- 4x 2.5GbE RJ45 with 1 pair bypass on board
- 4x GbE SFP ports on board
- 2x 10GbE SFP+ ports on board
- Optional NIC slot
- 1x SATA/NVMe M.2
- 1x PCI-E (x8) expansion slot
- 600W 1+1 redundant power supply

Specifications

CPU	LGA1700 Socket for 13th Gen Intel® Core i Processors
Chipset	Intel® PCH R680E
Memory	2x DDR5 UDIMM 4800 MHz, up to 128 GB
Display	N/A
Ethernet	4x 2.5GbE RJ45 ports (Intel® i226V) 4x 1GbE SFP ports (Intel® i210IS) 2x 10GbE SFP+ (Intel® X710)
Bypass	1x Segment (MCU control)
Expansion	1x PCI-E Gen5 x8 (for SSL card) 1x PCI-E Gen5 x8 (for IBN module)
IPMI	N/A
Storage	1x 2.5" HDD/SSD 1x SATA DOM 1x 2280 M.2 slot
TPM	TPM 2.0
I/O	1x LCM 3x LED (Status/HDD/Power) 1x RJ45 console 2x USB 3.0 1x Reset button 1x NMI button
Power Supply	600W 1+1 redundant power supply 500W single power supply 450W 1+1 redundant power supply
Dimensions	438(W) x 420(D) x 44(H) mm ± 0.3mm
Weight	N/A
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20° ~ 70°C
Operating Humidity	10% ~ 90%
Certification	CE/FCC

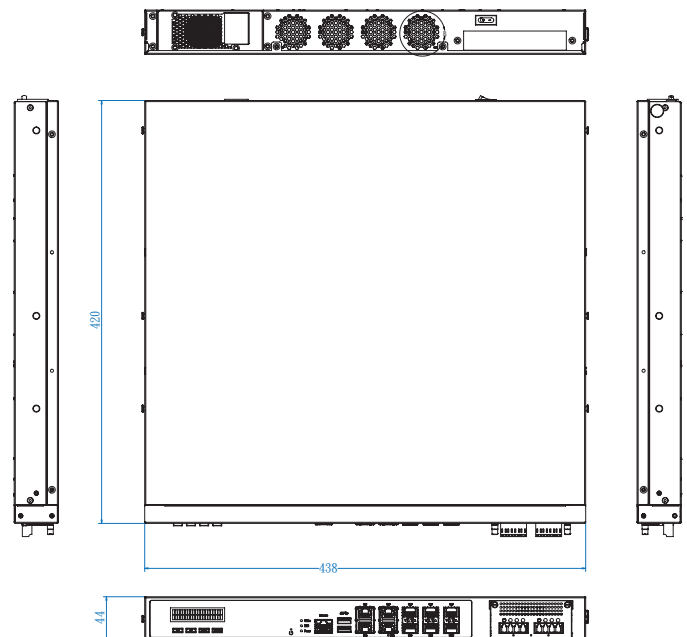
Ordering Information

INA3608	1U Rackmount Appliance, FML-900G-MB-3606, 13th Gen Intel® Raptor Lake Core i, R680E PCH, 2x DDR5 UDIMM, 600W RPSU Barebone without CPU/RAM/HDD/IBN Card/SSL card
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Accessories

PK1-51	Console cable, 160cm
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Dimensions





Features

- 12th Gen Intel® Core™ Processors with PCH R680E
- 2x DDR5 UDIMM 4800MHz (ECC)
- 4x 2.5GbE RJ45 with 1 pair of bypass on board
- 4x GbE SFP ports on board
- 2x 10GbE SFP+ ports on board
- Optional NIC slot
- 1x SATA/NVMe M.2
- 1x PCI-E (x8) expansion slot
- 600W 1+1 redundant power supply

Specifications

CPU	LGA1700 Socket for 12th Gen Intel® Core i Processors
Chipset	Intel® PCH R680E
Memory	2x DDR5 UDIMM 4800 MHz, up to 128 GB
Display	1x LCM
Ethernet	4x 2.5GbE RJ45 ports (Intel® i226V) 4x 1GbE SFP ports (Intel® i210IS) 2x 10GbE SFP+ (Intel® X710)
Bypass	1x segment (MCU control)
Expansion	1x PCI-E Gen5 x8 (for SSL card) 1x PCI-E Gen5 x8 (for IBN module)
IPMI	N/A
Storage	1x 2.5" HDD/SSD 1x SATA DOM 1x 2280 M.2 slot
TPM	TPM 2.0
I/O	1x LCM 3x LED (Status/HDD/Power) 1x RJ45 console 2x USB 3.0 1x Reset button 1x NMI button
Power Supply	600W 1+1 redundant power supply 500W single power supply 450W 1+1 redundant power supply
Dimensions	438(W) x 420(D) x 44(H) mm ± 0.3mm
Weight	N/A
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20° ~ 70°C
Operating Humidity	10% ~ 90%
Certification	CE/FCC

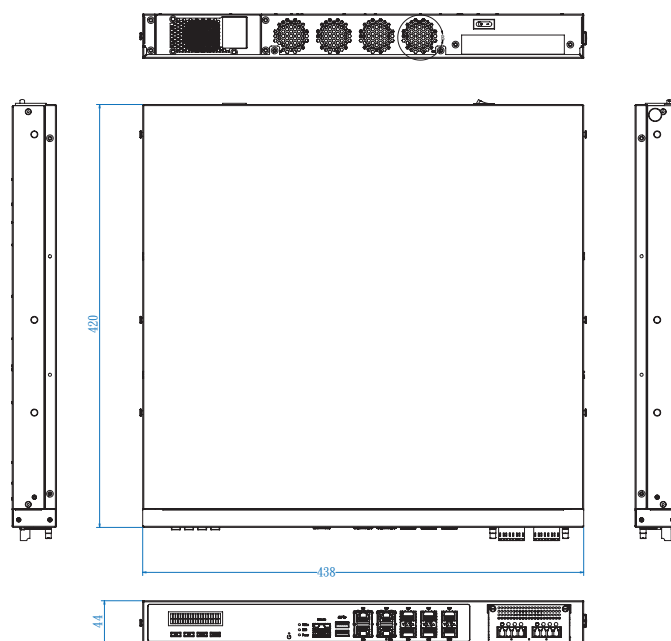
Ordering Information

INA3606	1U Rackmount Appliance, FML-900G-MB-3606, 12th Gen Intel® Core i, R680E PCH, 2x DDR5 UDIMM, 600W RPSU Barebone without CPU/RAM/HDD/IBN Card/SSL Card
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Accessories

PK1-51	Console cable, 160cm
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Dimensions





Specifications

CPU	Intel® Atom® Processor C3758 (8 Cores, 2.2GHz)
Chipset	N/A
Memory	2x DDR4 DIMMs up to 2400MHz, Max. 64GB RDIMM, Max. 32GB UDIMM (ECC or non-ECC)
Display	1x LCM
Ethernet	6x Intel® I211-AT GbE 1x Inphi CS4223 for 4x 10GbE
Bypass	2x segment, LAN 3/4 & 5/6
Expansion	1x PCI-E x8 slot (4-lane)
IPMI	N/A
Storage	2x 2.5" SATA drive bay 1x CF slot
TPM	TPM 1.2
I/O	3x LED (Power / HDD / Status) 1x Factory default button (GPIO) 1x RJ45 console 2x USB 3.0
Power Supply	Full-range 250W ATX power supply
Dimensions	438 mm (W) x 340 mm (D) x 44 mm (H) 17.24"(W) x 13.38"(D) x 1.73"(H)
Weight	6.50 kg
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5 ~ 90%
Certification	CE/FCC

Features

- Intel® Atom® Processor C3758
- 2x DDR4 DIMMs; Max. 32GB (UDIMM ECC / non-ECC) or 64GB (RDIMM)
- 6x PCI-E GbE RJ45 ports; 2x Advanced LAN Bypass pairs
- 4x 10GbE SFP+ ports
- 1x PCI-E slot, 1x CF slot

Ordering Information

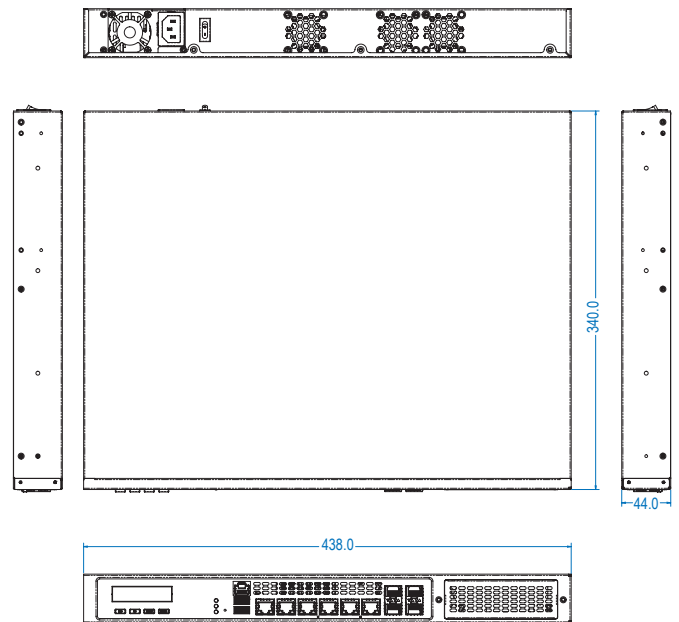
FWA8506	1U Rackmount Appliance, MBN802 Intel® Atom® Processor C3758, 2x DDR4 DIMMs, 6 GbE RJ45, 4 10GbE SFP+, 250W PSU, CPU cooler, Barebone without RAM/HDD/drive bay kit*
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*Must Order Component BOM

Accessories

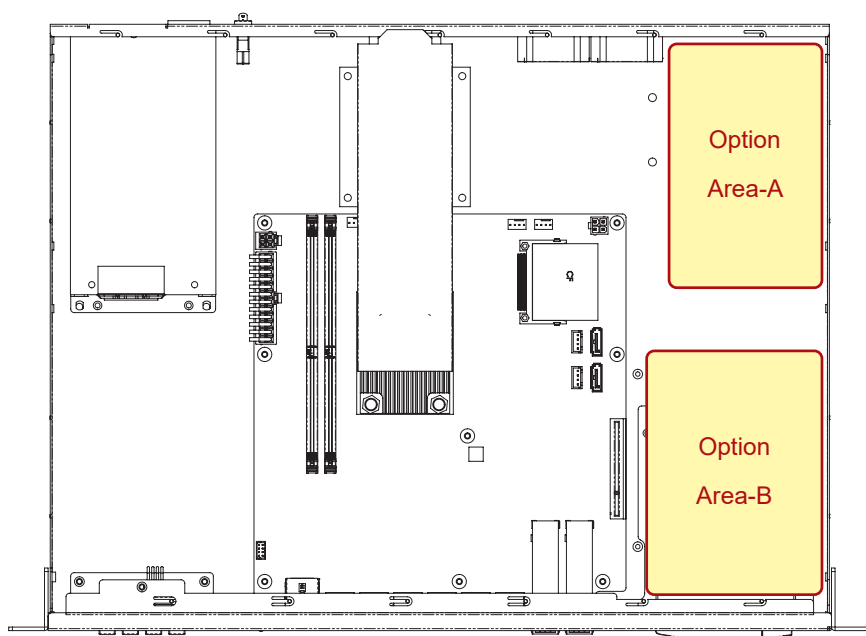
PK1-51	Console cable, 160cm
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Dimensions



Optional Component BOM

Configuration Options		Component BOM
Option Area-A	Option Area-B	Model Kit
None	None	FWA8506 KIT1
None	1x Expansion Slot	FWA8506 KIT2
None	Swappable 2x 2.5" drive bays	FWA8506 KIT3
2x 2.5" HDD	None	FWA8506 KIT4
2x 2.5" HDD	1x Expansion Slot	FWA8506 KIT5



INA3600

Rackmount Network Appliance

Mainstream 1U Network Appliance with 10th Gen Intel® Xeon® W / Core™ i9/i7/i5/i3 Pentium® Gold / Celeron® Processor & up to 14 GbE Ports



Features

- 10th Gen Intel® Xeon® W / Core™ i9/i7/i5/i3 / Pentium® Gold / Celeron® Processor with W480E or H420E PCH (CML-S)
- 2x DDR4 UDIMMs, Max. 64GB (ECC/ Non-ECC)
- 6x RJ45 GbE on board
- Optional NIC slot (only for INA3600W)
- 1x PCI-E (x8) expansion slot
- 300W power supply

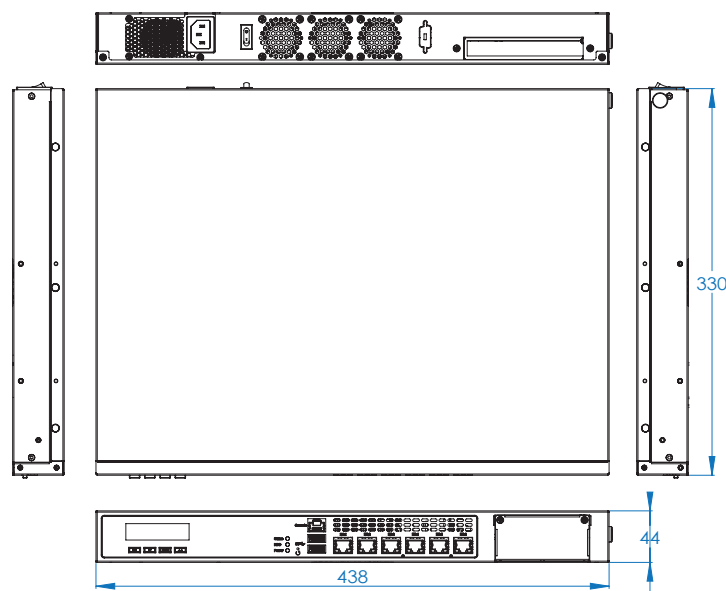
Specifications

CPU	INA3600W: LGA1200 Socket for Intel® Xeon® W / Core™ i9/i7/i5/i3 / Pentium® Gold / Celeron® processor INA3600H: LGA1200 Socket for Intel® Core™ i9/i7/i5/i3 / Pentium® Gold / Celeron® processor
Chipset	INA3600W: Intel® W480E PCH chipset INA3600H: Intel® H420E PCH chipset
Memory	2x DDR4 UDIMMs Max. 64GB
Display	1x VGA 1x LCM
Ethernet	INA3600W: 6x Intel® I211-AT GbE on board Optional NIC module slot, Max. 8 LAN ports INA3600H: 6x Intel® I211-AT GbE on board
Bypass	2-Segments, LAN3/4 & 5/6
Expansion	1x PCI-E x16 slot (8-lane) for INA3600W
IPMI	N/A
Storage	3x 2.5" SATA drive bay (by SKU)
TPM	TPM 2.0
I/O	1x LCM (by SKU) 3x LED (Power/ HDD/ Status) 1x Reset button 1x RJ45 console 2x USB3.1
Power Supply	Full-range 300W power supply
Dimensions	438 (W) x 329 (D) x 44 (H) mm 17.24" (W) x 12.95" (D) x 1.73" (H)
Weight	9.0 kg (19.84 lbs)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20° ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5 ~ 90%
Certification	CE/FCC

Ordering Information

INA3600W	INA3600W 1U Rackmount Appliance, MBN807W Intel® CML-S, W480E PCH, 2x DDR4 DIMMs, Max. 14 LAN ports, 300W PSU, CPU cooler, 1x PCI-E x16 slot, 1x iIO2 LCM. Barebone without CPU/RAM/HDD/IBN Card
INA3600H	INA3600H 1U Rackmount Appliance, MBN807H Intel® CML-S, H420E PCH, 2x DDR4 DIMMs, Max. 10 LAN ports, 300W PSU, CPU cooler, 1x PCI-E x16 slot, 1x iIO2 LCM. Barebone without CPU/RAM/HDD/IBN Card

Dimensions



INA2205

Rackmount Network Appliance

Entry 1U Network Appliance with Intel® Atom® Processor (formerly Amston Lake) & up to 8 GbE ports



Features

- Intel® Atom® Processor (formerly Amston Lake)
- 1x DDR5 SO-DIMM, Max. 16GB (Non-ECC)
- 6x 2.5G LAN RJ45 ports with 1 pair of bypass on board
- 2x SFP ports
- Supports open-frame 65W power supply

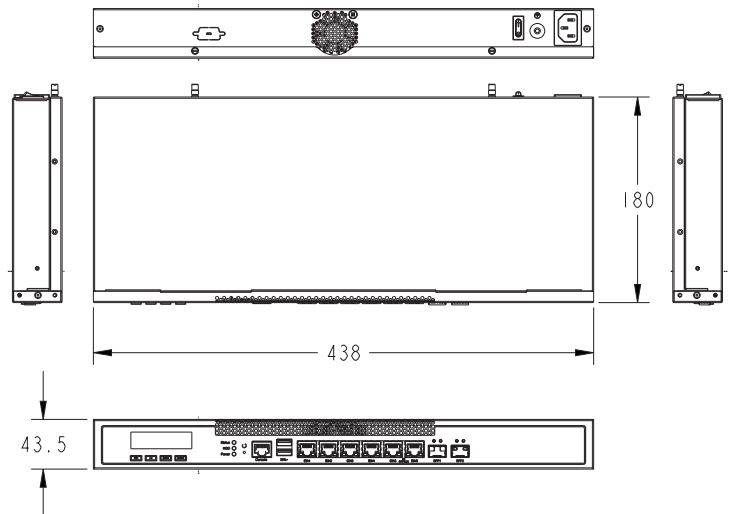
Specifications

CPU	Intel® Atom® Processor (Formerly Amston Lake) FCBGA1264
Chipset	N/A
Memory	1x DDR5 SO-DIMM (Non-ECC) Max. 16GB
Display	1x LCM
Ethernet	6x Intel® i226V 2.5GbE RJ45 2x Intel® i210IS SFP
Bypass	1x Segment, LAN5/LAN6
Expansion	N/A
IPMI	N/A
Storage	1x 2.5" HDD/SSD 1x M.2 SATA
TPM	TPM 2.0
I/O	1x LCM 3x LED (Status/ HDD/ Power) 1x RJ45 console 6x 2.5G LAN RJ45 2x SFP 2x USB 3.0 1x Reset Button
Power Supply	Open frame 65W power supply
Dimensions	438 (W) x 180 (D) x 43.5 (H) mm
Weight	6 kg
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20° ~ 70°C
Operating Humidity	10 ~ 90%
Certification	CE/FCC

Ordering Information

INA2205	1U Rackmount Appliance, MBN2205 Intel® Atom® Processor SoC, 1x DDR5 SO-DIMM Max. 16GB, 6x 2.5GbE RJ45, 2x GbE SFP, Open frame 65W PSU, CPU cooler, Barebone without RAM/HDD
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Dimensions





Rear I/O



Specifications

System Mainboard	IB803T
CPU Type	Intel® Atom® x6414RE (1.5GHz, 1.5MB cache, 9W TDP) Intel® Atom® x6212RE (1.2GHz, 1.5MB cache, 6W TDP)
System Speed	Up to 1.5GHz
Memory	1x DDR4 SO-DIMM, Max. 16GB
Rear Panel External I/O	1x DVI-I + 1x HDMI 2x USB 3.1 ports, 2x USB 2.0 port 3x RJ45 2.5G Ethernet port 4x LED indicators (GPIO, WLAN, WWAN) 1x power button with Green LED 1x 3-pin DC-in terminal block for 9V-36V 2x Antenna hole for WLAN module 2x RS232/422/485 ports for COM#3/COM#4 1x 4-in & 4-out GPIO
Left Panel External I/O	2x RS232/422/485 ports for COM#1/COM#2 1x Antenna hole for WLAN module 1x Line-out/ Mic-in
Right Panel External I/O	2x SIM card slot 1x Antenna hole for WLAN module
Expansion Slots	1x Full-size Mini PCI-E socket (USB 2.0) 1x Full-size Mini PCI-E socket (USB 2.0 + SATA) 1x M.2 B-Key socket (USB 3.0 + PCI-E)
Storage	1x Mini PCI-E slot (mSATA SSD), 1x 2.5" SSD (AGS103TS)
Construction	Aluminum & steel
Chassis Color	Silver & Gray
Mounting	DIN-rail mounting (DIN-rail mount kit included) Desktop or wall mounting (wall mount kit included)
Dimensions	AGS103T : 190mm(W) x 110mm(D) x 52mm (H) 7.48"(W) x 4.33"(D) x 2.05"(H) AGS103TS : 190mm(W) x 110mm(D) x 73mm (H) 7.48"(W) x 4.33"(D) x 2.87"(H)
Weight	1.2kg
Operating Temperature	-20°C~70°C (-4°F~158°F)
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Relative Humidity	5~90% @ 60°C, (non-condensing)
Vibration	Operating: 2.0 Grms / 5~500Hz / random operation (with IEC 60068-2-64)
Shock	Operating: 30G/11 ms Duration Non-operating: 40G/11 ms Duration
Certification	CE/ FCC/ LVD
Operating Systems	Win10 and Linux Ubuntu

Features

- Intel® Atom® x6414RE/x6212RE Processors (formerly Elkhart Lake)
- GPIO 4-in/4-out & 1x DVI-I & 1x HDMI
- Over/Under/Reverse voltage protection
- Extended operating temperature from -20°C to 70°C
- 9V~36V DC wide-range power input
- 1x M.2 B-Key 3052 supports 5G module
- Optional 1x 2.5" SSD (AGS103TS)
- 3x 2.5G Ethernet ports
- 2x full-size Mini PCI-E
- 4x COM (RS232/422/485), 2x USB 3.1 & 2x USB 2.0
- Supports DIN-rail mount, wall mount & TPM 2.0

Ordering Information

AGS103T-6414RM	Fanless DIN-rail System supports TPM2.0 w/ Intel® Atom® Processor x6414RE, 3x 2.5G Ethernet port, 4x COM, w/o memory, storage, power adaptor
AGS103TS-6414RM	Fanless DIN-rail System supports TPM2.0 w/ Intel® Atom® Processor x6414RE, 3x 2.5G Ethernet port, 4x COM, w/o memory, storage, power adaptor, w/ 2.5" storage slot
AGS103T-6212RM	Fanless DIN-rail System supports TPM2.0 w/ Intel® Atom® Processor x6212RE, 3x 2.5G Ethernet port, 4x COM, w/o memory, storage, power adaptor
AGS103TS-6212RM	Fanless DIN-rail System supports TPM2.0 w/ Intel® Atom® Processor x6212RE, 3x 2.5G Ethernet port, 4x COM, w/o memory, storage, power adaptor, w/ 2.5" storage slot



Features

- Intel® Atom® x7405C processor (formerly Amston Lake)
- 1x DDR5 SODIMM; Max. 16GB (ECC/non-ECC)
- 4x 2.5GbE RJ45
- 2x GbE RJ45 and 2x GbE SFP
- 1x Mini PCI-E slot
- 2x M.2 slot
- Supports WiFi/WiFi 6, LTE/5G, with up to 6 antennas

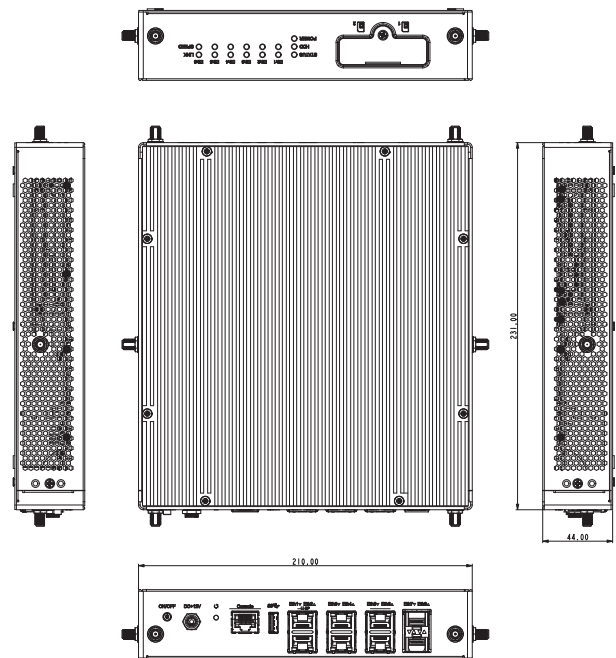
Specifications

CPU	Intel® Atom® x7405C Processor (formerly Amston Lake)
Chipset	N/A
Memory	1x DDR5 SODIMM Up to 4800MHz Max. 16GB (ECC/non-ECC)
Display	N/A
Ethernet	4x Intel® I226-V 2.5 GbE 1x Intel® i350-AM4 (2x GbE RJ45 and 2x GbE SFP)
Bypass	1x segment, LAN 1/2
Expansion	1x Mini PCI-E slot 1x M.2 slot (B-Key 3042 and 3052, PCI-E(x1) & USB 3.0 signal) for LTE/5G 2x Micro SIM for M.2 LTE/5G module 1x M.2 slot (B-Key 3042 and 3080) for SATA, PCI-E for storage
IPMI	N/A
Storage	1x 2.5" SATA drive bay 1x 16GB/32GB/64GB eMMC
TPM	TPM 2.0
I/O	3x LED (Status/HDD/Power) 1x Factory default button (GPIO) 1x RJ45 console 2x USB 3.0
Power Supply	Full-range 84W power adaptor / 12V
Dimensions	210 mm(W) x 231 mm(D) x 44 mm(H) 8.26" (W) x 9.09" (D) x 1.73" (H)
Weight	2.4KG
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5% ~ 90%
Certification	CE/FCC

Ordering Information

INA1607	Desktop Appliance, Intel® Atom® x7405C Processor (formerly Amston Lake), 1x DDR5 SO-DIMMs, 4x 2.5GbE RJ45 w/ 1 Pair of Bypass, 2x GbE RJ45 and 2x GbE SFP combo ports, 84W Adaptor, Barebone w/o RAM/HDD/ WiFi/LTE/5G
Kit	Antenna and WiFi Kit

Dimensions





Features

- AMD Ryzen™ Embedded V1605B/R1505G
- 2x DDR4 SO-DIMMs; Max. 32GB (ECC/non-ECC)
- 4x GbE RJ45
- 2x GbE RJ45 or SFP combo ports (for INA1600V only)
- 1x Mini PCI-E slot
- 2x M.2 slot
- Supports WiFi/WiFi 6, LTE/5G, with up to 8 antennas

Specifications

CPU	INA1600V: AMD Ryzen™ Embedded V1605B INA1600R: AMD Ryzen™ Embedded R1505G
Chipset	N/A
Memory	2x DDR4 SO-DIMMs Up to 3200MHz, Max. 32GB (ECC/non-ECC)
Display	1x DisplayPort
Ethernet	INA1600V: 4x Intel® I210-AT GbE 1x Intel® i350-AM2 (2x GbE RJ45 or SFP combo ports) INA1600R: 4x Intel® I210-AT GbE
Bypass	1x segment, LAN 1/2
Expansion	1x Mini PCI-E slot 1x M.2 slot (B-Key 3042, PCI-E(x1) & USB 3.0 signal) 2x Micro SIM for M.2 or Mini PCI-E 4G/LTE module 1x M.2 slot (B/M-Key 3080, PCI-E(x2) & USB 3.0 & SATA)
IPMI	N/A
Storage	1x 2.5" SATA drive bay
TPM	TPM 2.0
I/O	3x LED (Status/HDD/Power) 1x Factory default button (GPIO) 1x RJ45 console 2x USB 3.0 1x DisplayPort
Power Supply	Full-range 84W adaptor / 12V
Dimensions	250(W) x 231(D) x 44(H) mm 9.84" (W) x 9.09" (D) x 1.73" (H)
Weight	5.3 kg (11.68 lbs)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)
Operating Humidity	5% ~ 90%
Certification	CE/FCC

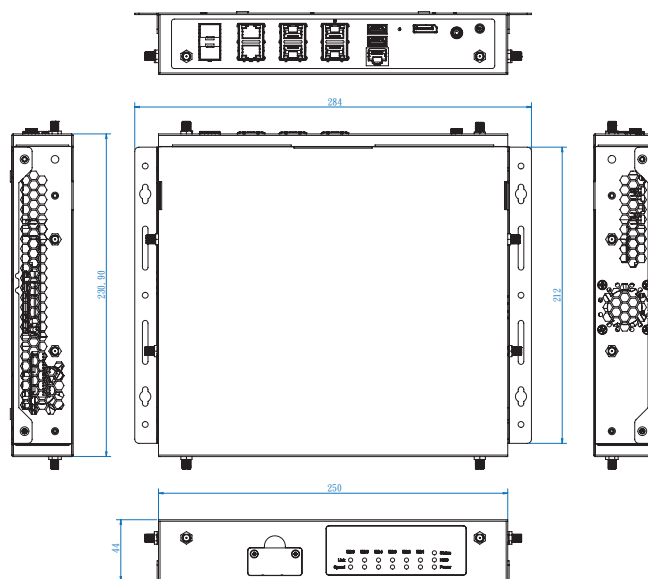
Ordering Information

INA1600V	Desktop Appliance, AMD Ryzen™ Embedded V1605B, 2x DDR4 SO-DIMMs, 4x GbE RJ45 w/ 1 Pair of Bypass, 2x GbE RJ45 or SFP combo ports, 84W Adaptor, DisplayPort, Barebone
INA1600R	Desktop Appliance, AMD Ryzen™ Embedded R1505G, 2x DDR4 SO-DIMMs, 4x GbE RJ45 w/ 1 pair of Bypass, 84W Adaptor, DisplayPort, Barebone

Accessories

PK1-51	Console cable, 160cm
Kit	Antenna and WiFi Kit

Dimensions



IBN Module List

Model Name		# of Ports	Interface	Bypass Segment	Controller	Compatible Model
IBN-A4A		4	RJ45	0	i350-AM4	INA3604 INA3605 INA3606 INA3608 INA7302 INA7303 INA7602 INA7605 INA7609
IBN-A4A		4	RJ45	2	i350-AM4	
IBN-A8A		8	RJ45	0	2x i350-AM4	
IBN-A8AB		8	RJ45	4	2x i350-AM4	
IBN-F2A		2	1GbE SFP	0	i350-AM2	
IBN-F2AB		2	1GbE SFP	1	i350-AM2	
IBN-F4A Coming soon		4	1GbE SFP	0	i350-AM4	
IBN-F4AB		4	1GbE SFP	2	i350-AM4	

IBN Module List

Model Name		# of Ports	Interface	Bypass Segment	Controller	Compatible Model
IBN-F8A Coming soon		8	1GbE SFP	0	2x i350-AM4	INA3604 INA3605 INA3606 INA3608 INA7302 INA7303 INA7602 INA7605 INA7609
IBN-G2B		2	10GbE SFP+	0	XL710-BM1	
IBN-G4C		4	10GbE SFP+	0	XL710-BM1	
IBN-G4CB Coming soon		4	10GbE SFP+	2	XL710-BM1	
IBN-G8C Coming soon		8	10GbE SFP+	0	E810-CAM2	
IBN-J2C Coming soon		2	40GbE QSFP+	0	XL710-BM2	
IBN-I2H Coming soon		2	100GbE QSFP28	0	E830-CCAM1	
IBN-K1H Coming soon		1	200GbE QSFP56	0	E830-CCAM1	

[illegible]