

CAR-4070

1U system based on Intel Raptor Lake/Alder Lake for Networking and Cybersecurity Solutions



Intel R680E PCH
 4 x CASwell NIN Modules for up to 32x Ethernet Ports
 2 x DDR5-5600/4800/4400/4000/3600, up to 128GB, optional ECC
 1 x M.2 PCIe Gen.4 or SATA, 2 x SATA 3.0 storage
 Intel Core i3/i5/i7/i9, Pentium Gold or Celeron CPU (max. 24 Hybrid Cores, up to 65W)
 Redundant 450W PSU

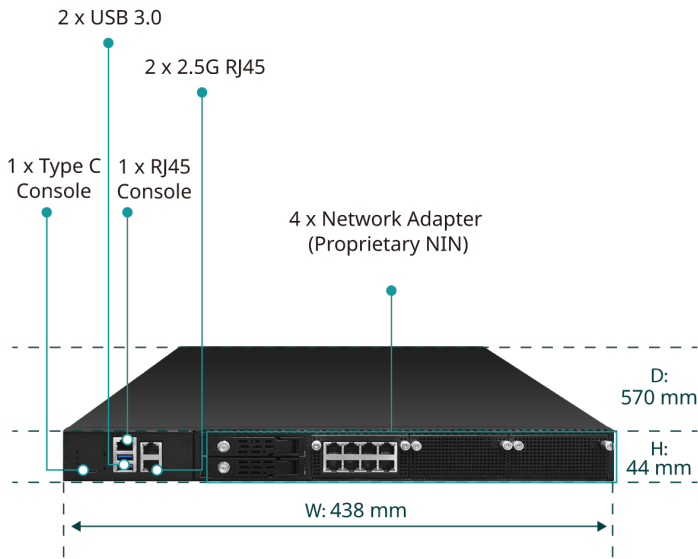
Specifications

Model Name	
Platform	
Processor	1 x Intel Pentium, Core i3/i7/i9 Processor (Alder Lake-S/Raptor Lake-S)
Chipset	Intel R680E PCH (Alder Lake)
System Memory	2 x DDR5 ECC 5600/4800/4400/4000/3600 MHz UDIMM
Max Memory	Up to 128GB
Ethernet Port	2 x RJ45 GbE Port(s) on board, Up to 32 x Ethernet Port(s)
Bypass	Optional based on CASwell NiNBased on CASwell NIC Module or Standard add-on card
Expansion	4 x CASwell NIN Module
Storage Device	1 x M.2 PCIe Gen.4/SATA 3.0, 2 x SATA 3.0
Power Supply	450W Redundant PSU
Dimension (WxDxH)	438mm x 570mm x 44mm (17.52" x 22.8" x 1.76")
Weight (Kg)	TBD
I/O	
Management Console	2 x RJ45
USB Port	3 x USB 3.0 Port(s)
Display Output	1 x HDMI Port
LCD Panel	-
LED	Power / System Status
LOM	-
Operation & Certifications	
Operating Environment	Temperature: 0 - 40°C (32 - 104°F), Humidity: 10 - 90% RH
Storage Environment	Temperature: -10 - 70°C (14 - 158°F), Humidity: 5 - 95% RH
Certification	CE / FCC
OS Support	Linux

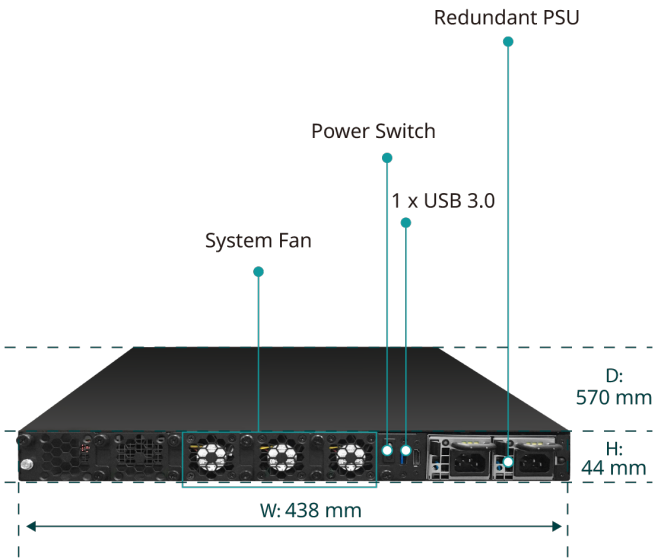
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Front I/O



Back I/O



Ordering Information

System	
SKU	Description
CAR-4070	1U, 1 x Intel Raptor Lake-S/Alder Lake-S, R680E PCH, 2 x DDR5 UDIMMs, 450W Redundant PSU, 4 x NIN

Optional CPUs			
Model	Core/Thread	Frequency (Max.)	TDP
Intel Celeron G6900E	2P/2T	3.0GHz	46W
Intel Celeron G6900TE	2P/2T	2.4GHz	35W
Intel Core i3-12100E	4P/8T	3.2GHz (4.2GHz)	60W
Intel Core i3-12100TE	4P/8T	2.1GHz (4.0GHz)	35W
Intel Core i3-13100E	4P/8T	3.3GHz (4.4GHz)	60W
Intel Core i3-13100TE	4P/8T	2.4GHz (4.1GHz)	35W
Intel Core i5-12500E	6P/12T	2.9GHz (4.5GHz)	65W
Intel Core i5-12500TE	6P/12T	1.9GHz (4.3GHz)	35W
Intel Core i5-13400E	4E+6P/16T	2.4GHz (4.6GHz)	65W
Intel Core i5-13500E	8E+6P/20T	2.4GHz (4.6GHz)	65W
Intel Core i5-13500TE	8E+6P/20T	1.3GHz (4.5GHz)	35W
Intel Core i7-12700E	4E+8P/20T	2.1GHz (4.8GHz)	65W
Intel Core i7-12700TE	4E+8P/20T	1.4GHz (4.6GHz)	35W
Intel Core i7-13700E	8E+8P/24T	1.9GHz (5.1GHz)	65W

Optional NICs			
Model	Type	Manufacturer	Number of Ports
NIN-51040	Ethernet	Intel I350 AM4	4 x 1GbE RJ45
NIN-51042	Ethernet	Intel I210AT	4 x 1GbE RJ45
NIN-51081	Ethernet	Intel I350 AM4	8 x 1GbE RJ45
NIN-51240	Bypass	Intel I350 AM4	4 x 1GbE RJ45
NIN-51242	Bypass	Intel I210AT	4 x 1GbE RJ45
NIN-51481	Bypass	Intel I350 AM4	8 x 1GbE RJ45
NIN-52040	Ethernet	Intel I350 AM4	4 x 1GbE SFP
NIN-52081	Ethernet	Intel I350 AM4	8 x 1GbE SFP
NIN-52120	Bypass	Intel I350 AM2	2 x 1GbE SFP (SX)
NIN-52121	Bypass	Intel I350 AM2	2 x 1GbE SFP (LX)
NIN-52240	Bypass	Intel I350 AM4	4 x 1GbE SFP (SX)
NIN-52241	Bypass	Intel I350 AM4	4 x 1GbE SFP (LX)
NIN-55280	Bypass	Intel I350 AM4	4 x 1GbE RJ45 + 4 x 1GbE SFP
NIN-83020	Ethernet	Intel X710-BM2	2 x 10GbE SFP+



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