NB SERIES 300



Industrial Box PC

The NB Series 300 combines a compact design with fanless operation to deliver a practical computing solution for industrial automation environments. Designed for seamless integration into industrial systems, it offers a balance of performance, flexibility, and space-saving installation.

CM-NB-300-D

Product Highlights

- Delivers efficient industrial computing performance with the Intel® Atom x7425E SoC processor and fanless design.
- Provides 8GB DDR5 SDRAM, expandable up to 16GB, to support diverse application requirements.
- Offers 250GB SSD storage with an optional 250GB M.2 SSD for increased storage flexibility.
- Supports Windows 11 IoT Enterprise (Standard) or Windows 11 Pro.
- Enables high-speed network connectivity via dual 2.5 GbE Ethernet ports.
- Supports HDMI and DisplayPort connectivity.
- Designed for DIN-rail mounting and operation in temperatures from –10°C to +60°C.
- Listed with FCC, CE, and KC regulatory requirements, with an IP20 protection rating.









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Fast | Reliable | Efficient | Secure

Functional

Model		CM-NB-300-D
Enclosure		Aluminum
CPU		Intel® Atom x7425E SoC (FANLESS)
Memory		DDR5 SDRAM 8GB (Max. 16GB)
Storage		SSD 250GB (2.5” / SATA)
Extra Storage Option		SSD 250GB (M.2 / SATA3)
Operating System		Windows 11 IoT Enterprise (Standard) / Windows 11 Pro
Graphics		Integrated Intel UHD Graphics
Display Ports		1 x DP port, 1 x HDMI Port
Audio		1 x Line-Out
COM 1		1 x RS232 / 422 / 485
COM 2		1 x RS232
Ethernet		2 x 2.5GbE ports
USB		4 x USB 3.2 ports
Power Supply		DC 24 V
Power Consumption		48W (Max : 51W)
Utility Program		UWF, Winclon (Recovery System)
Agency Approvals	**CE**	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
	FCC	The 47 CFR Part15 Of FCC Requirement
	KC	Registration of Broadcasting and Communication Equipments
	Protection Class	IP20

Environmental

Model	CM-NB-300-D
Operating Temperature	-10°C – +60°C (14 – +140 °F)
Storage Temperature	-20°C – +60°C (-4 – +140 °F)
Operating Humidity	10%–90% RH (Below 29°C, No dew condensation)
Storage Humidity	10%–90% RH (Below 39°C, No dew condensation)

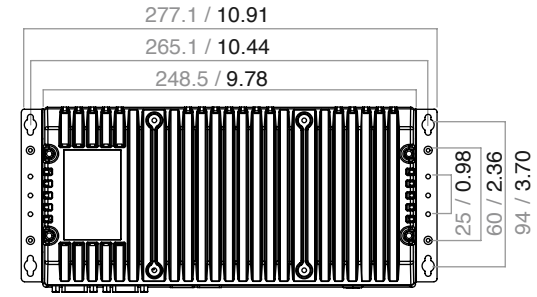
Physical

Model	CM-NB-300-D
Dimensions	277.1 x 121.2 x 50.2 mm (10.91 x 4.77 x 1.98 in)
Weight	1.4kg (3.09 lbs)
Mounting	DIN Rail

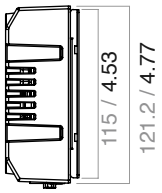
Spec Drawings

CM-NB-300-D

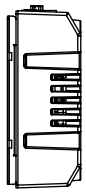
Units: mm / in



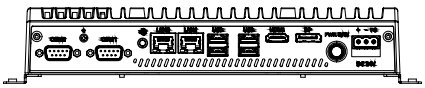
Front



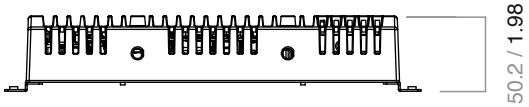
Right



Left



Top



Bottom

Accessories

Part Number	Description
CM-DR1	DIN rail mounting kit. *One (1) kit required per unit for DIN rail compatibility.*

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All CIMON products are backed by a 3-year warranty and our best-in-class technical support team.