

NCR N4000 Site Controller

Get all the power and performance you need to run your restaurant software in a durable, space-saving design

The NCR N4000 is a small form factor, back of house site controller designed and built for best in class reliability. It's a completely solid state device using SSD storage, a passively cooled heat spreading enclosure and low power, high performance components.

The N4000 uses Intel's® Coffee Lake Q370 chipset with a low power i5-8500T Hexa Core (3.5 GHz turbo) processor. With a highly-reliable design, fast processor, DDR4 SDRAM, USB 2.0 and USB 3.1 Gen 2, dual video outputs and much more, the N4000 provides enough power for the most demanding software for years to come.



Platform highlights

- Space-saving design with flexible mounting options
- Fast I/O interfaces including 2 USB 2.0 and 4 USB 3.1 Gen 2, Dual Ethernet ports, Dual Display Port ++ (DP++) video outputs.
- SATA Drives (up to 2) & DDR4 memory

N4000 features and benefits

Every unit item model number: 1659-XXXX-8801

Features

Benefits

Processors:
i5-8500T Hexa Core
(3.5 GHz turbo)

Exceptional platform performance:
The 8th Generation Intel® Core™ processors redefine mainstream desktop PC performance with up to six cores for more processing power—that's two more cores than the previous generation Intel® Core™ processor family—Intel® Turbo Boost Technology 2.0 to increase the maximum turbo frequency up to 3.5 GHz, and up to 12 MB of cache memory. Intel® Hyper-Threading Technology delivers up to 12-way multitasking support in the latest generation of Intel® Core™ processors.

Dual Independent
Digital Displays

Dual DisplayPort++ connection allows for two simultaneous independent displays.

Compact
Form Factor

Compact heat spreading design allows for flexible mounting options in a solid-state device.

High Speed
USB 3.1 Gen 2

USB 3.1 Gen 2 allows for the faster data transfer rate (theoretical speed up to 10 Gbps) in the USB 3.0 spec.
USB 3.1 Gen 2 drives are backwards compatible with both USB 3.0/3.1 Gen 1 and USB 2.0 ports and connectors. Even when you use USB 3.1 drives on your USB 2.0 host devices, you'll still save time.

SATA SSD drives

240GB capacity solid state drive (SSD) available.
No moving parts allow for increased uptime and better reliability.

Dual Gigabit
LAN Ports

Two onboard Gigabit LAN controllers that allow for high speed networking connections. One controller can support Intel AMT

For more information, visit ncr.com, or email ken.wells@ncr.com.



N4000 specifications

CPU	Intel® i5-8500T™ Hexa Core (3.5 GHz turbo)
Volatile Memory	16GB DDR4 SODIMM
Networking	Two Gigabit (10/100/1000 Mb/s) LAN subsystems using the Intel® I219LM Gigabit Ethernet Controller (red connector) and Intel® I210 Gigabit Ethernet Controller (black connector)
Mass Storage	240GB SATA SSD; optional second 240GB SSD with or without RAID
USB	4 USB 3.1 Gen 2 and 2 USB 2.0
Audio	3.5mm line out & mic input
Video	2 DisplayPort
Operating System	Windows® 10 Professional and Server 2016
Power Supply	External 12V DC, 90W full range power supply with locking connector
LED Indicators	HDD and power LED indicators on the rear IO panel
Kensington Lock	Supported
Dimensions (W x D x H)	12.8 in x 9.1in x 3.4 in (325 mm x 231 mm x 86 mm)
Weight	12.5 lbs (4.7 kg)
Operating Temperature	32°F – 104°F, 0° – 40° C
Storage Temperature	32°F – 158°F, 0° – 70° C Must be in original pack material in humidity controlled environment.
Humidity	5% - 85% non-condensing
Environmental compliance	ROHS, WEEE
EMI Certifications	FCC Class A, CE, C-tick
Safety Certifications	TUV, CB Scheme

N4000 back panel connectors

Standard IO connections



Item	Description
A	Kensington Lock
B	DB9
C	Microphone Line in
D	Analog Line out
E	USB3.1 Gen 2
F	LAN Port
G	LAN Port Supporting Intel AMT
H	DisplayPort ++
I	USB 2.0
J	Power Connector
K	Power Button

Installation notes

Footprint: 2.0 inches of clearance above, behind and to the sides of the N4000 is necessary to properly install it. This accommodates the unit and its associated cable connectivity, and provides for proper ventilation.

Moisture: The N4000 unit should not be installed in areas where it might be exposed to direct water spray. N4000 units are not meant for outdoor installation.

Power: The N4000 has an external 90 watt power supply rated for 110V and 240V (auto-sensing), 50Hz or 60Hz. Source power is drawn from a regular AC wall outlet. The electronics are “universal”—they will function when connected to standard wall outlets of most countries around the world. For use in locales other than North America, special wall outlet adapters or cables are required.

Mounting options

Counter top mounting: requires no additional hardware.



Wall & 2U rack mounting: requires the addition of the wall & rack mount bracket kit **1659-K001**



Why NCR?

NCR is a leading technology company that brings unexpected value to every interaction between consumers and businesses. The **#1 global hospitality POS software provider** and the company behind the industry-leading NCR Aloha POS, we've helped **100,000+ restaurants** deliver exceptional experiences around the world.

Leading with digital, we power innovations like the self-ordering kiosk, with software, hardware and services that help restaurants, airlines, stadiums and venues bridge their digital and physical operations. Together, we help hospitality brands embrace cloud and mobile, streamline their businesses and connect every touchpoint into a differentiated experience that turns guests into loyal fans.

NCR continually improves products as new technologies and components become available. NCR, therefore, reserves the right to change specifications without prior notice.

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