



General Product Description

NCR N4000

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



The N4000 utilizes Intel's® Coffee Lake Q370 chipset with low power i5-8500T Hexa Core (3.5 GHz turbo) processor. With a highly reliable design, a 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

- Compact 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

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N4000 Every-Unit-Item Features and Benefits

Every unit item model number: 1659-XXXX-8801

| Features | Benefits |
|--|---|
| Processor: 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 9 MB of cache memory. |
| 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. |



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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 & 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 |
| Certifications | FCC Class A, CE, C-tick, TUV, CB Scheme, PSE, NOM |

N4000 Back Panel Connectors

Standard IO Connections



| Item | Description |
|------|-------------------------------|
| A | Kensington Lock |
| B | DB9 |
| D | Microphone Line in |
| E | Analog Line out |
| F | USB 3.1 Gen 2 |
| G | LAN Port |
| H | LAN Port Supporting Intel AMT |
| J | DisplayPort ++ |
| K | USB 2.0 |
| L | Power Connector |
| M | Power Button |



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Installation Notes

Footprint: 2.0 inches of clearance above, behind, and to the sides of the N4000 is necessary to properly install a N4000. This will accommodate the unit as well as its associated cable connectivity and provide for proper ventilation.

Moisture: The N4000 unit should not be installed in areas where they 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” – that is, they will function when connected to standard wall outlets of most nationalities around the world. For use in locales other than North America, special wall outlet adapters or cables will be 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**



USB to Dual DB9 Dongle– Requires the addition of the dual DB9 Dongle kit: **1614-K001**

