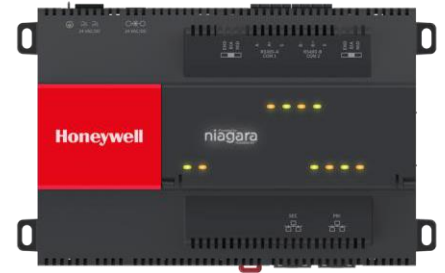


HON-9000 CONTROLLER

The Honeywell HON-9000 controller is a compact, embedded IoT (Internet of Things) controller and server platform for connecting multiple and diverse devices and sub-systems. With internet connectivity and web-serving capability, the HON-9000 controller provides integrated control, supervision, data logging, alarming, scheduling, and network management. It streams data and rich graphical displays to a standard web browser via an Ethernet or wireless LAN, or remotely over the internet.



Honeywell HON-9000 Controller

The licensing model for the HON-9000 controller is simplified and features standard drivers, along with optional OptimizerIO and field bus expansion modules for ultimate flexibility and expandability. The HON-9000 controller operates with Optimizer Supervisor N4.13u2 or higher version of the Niagara Framework. In larger facilities, multi-building applications and large-scale control system integrations this software is typically used with HON-9000 controllers to aggregate information, including alarms, and historical and real-time data, to create a single, unified application.

FEATURES AND HIGHLIGHTS

EFFICIENT GLOBAL DESIGN

- The modular design of the HON-9000 controller makes it easy to install, integrate and deploy.
- Tool-less installation with expansion capability reduces installation complexity and improves flexibility.
- System integrators can focus on engineering solutions, not assembling components. And their lives will be simplified with a global power supply and improved access to standard enclosures.

INCREASED PERFORMANCE

- With a Quad Core processor, double storage, and RAM, the HON-9000 controller offers increased performance and capacity with faster bootup and station load time.
- The HON-9000 controller is fully compatible with existing expansion modules and the same footprint as past modules allow for seamless replacement for future updates.
- The HON-9000 controller can also be ordered without the wireless interface if needed.
- Data analysis at the onsite HON-9000 controller level.
- Real-time on-premises analytic control.

OPTIMIZED FOR NIAGARA 4

- The HON-9000 controller leverages the exciting features of Optimizer Supervisor N4.13u2 and higher.
- It adds to the enhanced user experience, maximizing Niagara 4's key advantages: pure Web interface based on HTML5 views, responsive UI, charting and data visualization, a common design language, better reporting, robust security, and improved device management.

HON-9000 CONTROLLER PART NUMBERS	
PART NUMBER	DESCRIPTION
HON9000-24	Individual HON-9000 controller, two 10/100/1000 MB Ethernet ports, and two RS-485 serial ports. Requires HON-9xxx base license.
HON9000-24W	Individual HON-9000 Wi-Fi controller, two 10/100/1000 MB Ethernet ports, and two RS-485 serial ports. Requires HON-9xxx base license.
HON9-DEMO	HON-9000 Demo license, Requires Optimizer Supervisor N4.13u2 or higher. Hardware accessories are not included. See Hardware Options for wall power supply and expansion modules.
HON9000-CLIP	Branding clips for HON-9000.
HON9000-SD	8 GB HON-9000 microSD card only. Does not include software core or license.
HON-9005	HON-9000 - Base license with 250 Open Points. Includes 18-month Initial SMA. Includes *standard open drivers. Requires Optimizer Supervisor N4.13u2 or higher.
HON-9010	HON-9000 - Base license with 500 Open Points. Includes 18-month Initial SMA. Includes *standard open drivers. Requires Optimizer Supervisor N4.13u2 or higher.
HON-9025	HON-9000 - Base license with 1250 Open Points. Includes 18-month Initial SMA. Includes *standard open drivers. Requires Optimizer Supervisor N4.13u2 or higher.
HON-9100	HON-9000 - Base license with 5000 Open Points. Includes 18-month Initial SMA. Includes *standard open drivers. Requires Optimizer Supervisor N4.13u2 or higher.
HON-9100P	HON-9000 - Base license with 100 open Points. Includes 18-month Initial SMA. Includes *standard open drivers. Requires Optimizer Supervisor N4.13u2 or higher.
HON-9200	HON-9000 - Base license with 10000 Points. Includes 18-month Initial SMA. Includes *standard open drivers. Requires Optimizer Supervisor N4.13u2 or higher.
HON-NXEM-2X485	HAWK 8000 & HON-9000 controllers — add on dual port RS-485 networks.
HON-NXEM-232	HAWK 8000 & HON-9000 controllers — add on single port RS-232 networks.
HON-NXEM-LON	HAWK 8000 & HON-9000 controllers — add on single port LON FTT10A networks.
HON-SMA-9005-1YR	HON-9005 - 1 year maintenance, up to 499 points
HON-SMA-9005-3YR	HON-9005 - 3-year maintenance, up to 499 points
HON-SMA-9005-5YR	HON-9005 - 5-year maintenance, up to 499 points
HON-SMA-9010-1YR	HON-9010 - 1 year maintenance, 500 -1249 points
HON-SMA-9010-3YR	HON-9010 - 3-year maintenance, 500 -1249 points
HON-SMA-9010-5YR	HON-9010 - 5-year maintenance, 500 -1249 points
HON-SMA-9025-1YR	HON-9025 - 1 year maintenance, 1250-4999 points
HON-SMA-9025-3YR	HON-9025 - 3-year maintenance, 1250-4999 points
HON-SMA-9025-5YR	HON-9025 - 5-year maintenance, 1250-4999 points
HON-SMA-9100-1YR	HON-9100 - 1 year maintenance, 5000-9999 points
HON-SMA-9100-3YR	HON-9100 - 3-year maintenance, 5000-9999 points
HON-SMA-9100-5YR	HON-9100 - 5-year maintenance, 5000-9999 points
HON-SMA-9200-1YR	HON-9200 - 1-year maintenance, 10000+ points
HON-SMA-9200-3YR	HON-9200 - 3-year maintenance, 10000+ points
HON-SMA-9200-5YR	HON-9200 - 5-year maintenance, 10000+ points
CLNX-DEVICE-UP-10	500 Point Capacity Pack Upgrade – for both HAWK 8000 and HON-9000
CLNX-DEVICE-UP-25	1250 Point Capacity Pack Upgrade – for both HAWK 8000 and HON-9000
CLNX-DEVICE-UP-50	2500 Point Capacity Pack Upgrade – for both HAWK 8000 and HON-9000

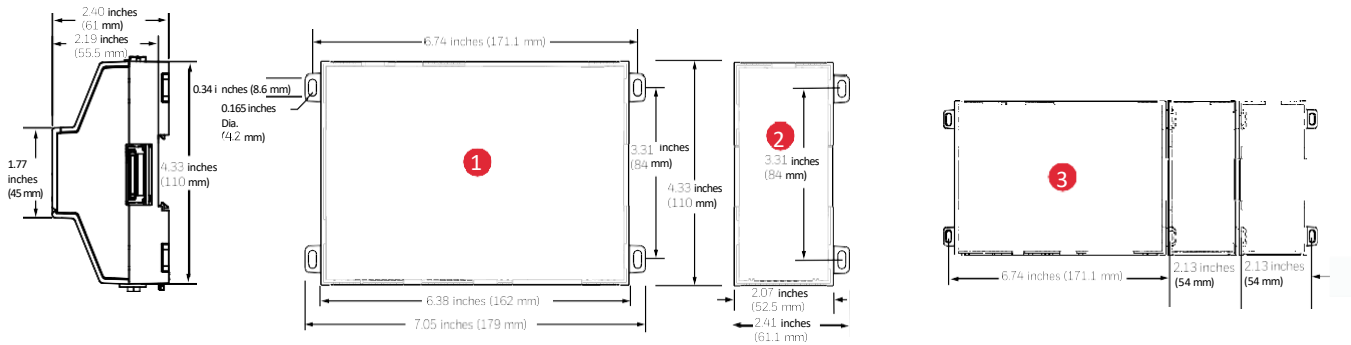
*Standard Open drivers like eg. - LON, BACnet, Modbus, KNX, and SNM.

ORDERING INFORMATION: SOFTWARE & SOFTWARE MAINTENANCE

Every HON-9000 is available with a Honeywell Optimizer Niagara 4.13u2 or higher software license and Optimizer standard drivers. Purchase of a software maintenance agreement (SMA) is required with initial HON-9000 licensing. The initial SMA is for 18 months, with extended agreements of 3 years and 5 years.

Note: If a Software Maintenance Agreement is not in effect for any period, the price of maintenance for the next period for which it is purchased will be priced at a cost equal to the maintenance fee for the period(s) for which maintenance was not purchased, up to a maximum of 5 years, plus the maintenance fee for the next year.

- 1 Allow at least 1.5" (38 mm) clearance around all sides of HON-9000 controller and minimum 3" (76 mm) at the bottom for missing part number for optional WiFi antenna.
- 2 Expansion module. Up to four (4) may be used. See "Expansion Module and IO Configurations".
- 3 Distances between center of tabs from one unit to another unit.



All dimensions are in inches (mm).

Compatible with (DIN43880) enclosures.

Suitable for mounting in a panel or at the EN50022 standard 1.38" (35 mm) DIN rail.

Vizio stencils available upon request.

PRODUCT SPECIFICATIONS

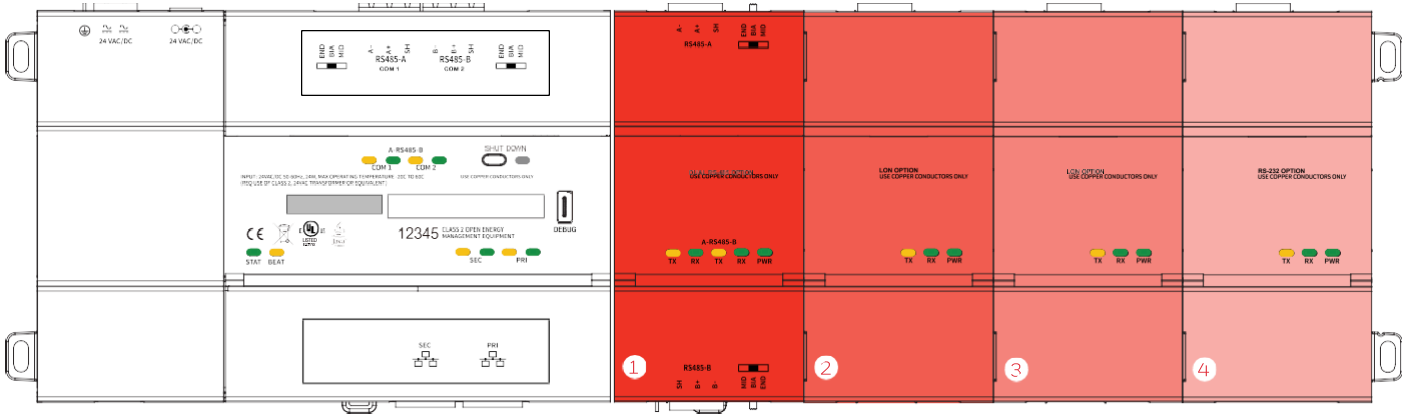
HARDWARE	
PARAMETER	SPECIFICATION
CPU	NXP iMX8M+ Quad Core CPU
Memory capacity	2 GB LPDDR4 RAM
Memory	Removable 8 GB microSD card
WiFi (Can only use N4.15u1 or higher)	WiFi (Client or WAP) <ul style="list-style-type: none"> · WiFi 5 (802.11ac) · IEEE 802.11 a/b/g/n/ac · Configurable radio (Off, WAP, or Client) · WPAPSK/WPA2PSK supported · Only available for wireless model.
USB	USB type C connector - Debug port
Modbus devices	Two isolated RS-485 with selectable bias and termination
Ethernet	Two 10/100/1000 MB Ethernet ports
Security	Secure boot
*Supply requirements	24 VAC rated at 24 VA minimum, or 24 VDC rated at 1 Amp (24 W) minimum
Version	Runs Optimizer Supervisor N4.13u2 or later
Timekeeping	Real-time clock
Battery type	Battery less

ENVIRONMENTAL SPECIFICATIONS	
PARAMETER	SPECIFICATION
Operating Temperature	-20 °C to 60 °C
Storage Temperature	-40 °C to 85 °C
Humidity	5 % to 95 % non-condensing
Shipping & vibration	ASTM D4169, Assurance Level II
MTTF	10 years+

STANDARDS AND APPROVALS	
UL 916	
CE EN 61326-1	
RCM	
UL/ULC 60730-1	
FCC Part 15 Subpart B, Class B	
FCC Part 15 Subpart C	
1999/5/EC R&TTE Directive	
CCC	
SRRC	
RSS	
RoHS	
C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment"	

EXPANSION MODULE AND IO CONFIGURATIONS

EXPANSION MODULES	
MAXIMUM EXPANSION (MODULES SUPPORTED)	MAXIMUM IO (MODULES SUPPORTED)
<ul style="list-style-type: none"> HON-NXEM-LON (4) HON-NXEM-232 (4) HON-NXEM-2X485 (2) 	<ul style="list-style-type: none"> IO-R-16 (16)* IO-R-34 (8)*



EXPANSION 1	EXPANSION 2	EXPANSION 3	EXPANSION 4
232 or LON	232 or LON	232 or LON	232 or LON
485	232 or LON	232 or LON	232 or LON
485	485	232 or LON	
485	485		



* Devices subject to local availability. Contact your local sales representative for information on available devices in your region.

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