



Product Description

IoT Integration Platform

The NCUNIVIEW-NEO 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 NCUNIVIEW-NEO 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.

Wide Selection of Module Expansion

The NCUNIVIEW-NEO Controller allows for flexible use of communication and I/O expansion modules. The Controller supports maximum of 4 NCU-NEO-LON modules or 4 NCU-NEO-232 or 2 NCU-NEO-2X-485 modules. Please refer the section on expandable architecture.

Latest Niagara 4 Framework®

The licensing model for the NCUNIVIEW-NEO controller is simplified and features standard drivers along with optional IO and field bus expansion modules for ultimate flexibility and expandability.

The NCUNIVIEW-NEO controller operates with Niagara 4, the latest version of the Niagara Framework®, for optimum performance. In larger facilities, multi- building applications and large-scale control system integrations, Netix Uniview SUPRA Software (NCUVSUP) can be used with NCUNIVIEW-NEO controllers to aggregate information, including real-time data, history and alarms, to create a single, unified application.

Mounting

The NCUNIVIEW-NEO Controller is compatible with DIN43880 enclosures . It is also suitable for mounting to a panel or to an EN50022 standard 35mm rail.

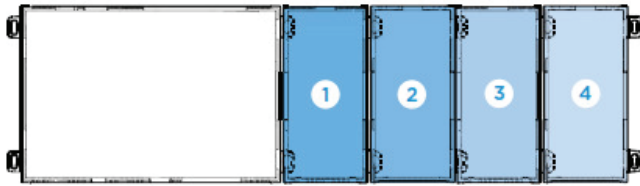
Features and Benefits

- ▶ Integration Controller powered by Niagara 4
- ▶ Multiple Protocol Connectivity
- ▶ Expandable Architecture
- ▶ Diagnostic LEDs
- ▶ I/O Module Expansion
- ▶ SD Card Slot for Memory Expansion
- ▶ Wireless Connectivity

Technical Information

Operating Voltage	24VAC rated at 24VA minimum or 24VDC rated at 1A (24W) minimum
Operating Environment	-20 ... 60°C, 0-80% Rh (Non-Condensing)
Processor	TI AM3352: 1000MHz ARM® Cortex™-A8 with secure boot
Comm. Interfaces	USB type A connector with back-up and restore support. Two isolated RS-485 with switch-selectable bias and termination. Two 10/100MB Ethernet ports
Memory	1GB DDR3 SDRAM, Expandable SD Card with 4GB flash total storage/2GB user storage
Wireless Connectivity	Wi-Fi (Client or WAP) IEEE802.11a/b/g/n IEEE802.11n HT20 @ 2.4GHz IEEE802.11n HT20/HT40 @ 5GHz Configurable radio (Off, WAP, or Client) WPAPSK/WPA2PSK supported
Niagara Framework	Runs Niagara 4.1 and later
Clock & Battery	Battery-less Real Time Clock.
Encryption	Supports SSL and TLS encryption
Enclosure	UL listed ABS enclosure
MTTF	10+ Years
Agency Listing	UL 916, CE EN 61326-1, FCC Part 15 Subpart B, Class B, FCC Part 15 Subpart C, 1999/5/EC R&TTE Directive, CCC, SRRC, RSS, ROH

Expandable Architecture



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

Expandability depends on type of module used

Remote IO (Expansion Modules) Supported

IO-R-16 (16 Nos), IO-R-34 (8 Nos)
See Uniview IO Data sheet for configuration details.

Ordering Codes

Uniview Neo Series NETIX Controller

NCUNIVIEW-NEO Uniview Neo Controller with 24Vdc, SD Card, 2 X Ethernet ports, 2 X RS-485 ports, WLAN.

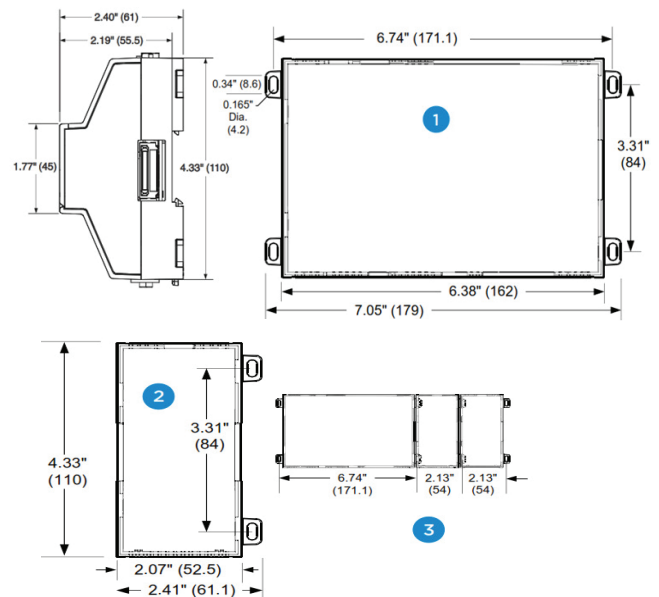
Uniview Neo Controller - Accessories

NEO-WPM-8000	100-240VAC, 50/60 Hz. Wall Adapter - with 2.5mm barrel connector for 24V input on the UNIVIEW Neo and includes selectable US, EU, UK, or AU style plug.
NEO-NPB-KIT	Accessory Kit for Uniview Neo - includes 2.4/5GHz Antenna, power and (2) RS-485 connectors.
NEO-WIFI-EXT	Extension cable and bracket for UNIVIEW NEO WLAN
NEO-OPT-KIT	UNIVIEW NEO Expansion Module Accessory Kit includes (2) RS-485 and (1) LON-FTT10A connectors

Uniview Neo Controller - Direct Expansion Modules

NEO-LON	UNIVIEWNEO - Expansion single port LON FTT10A module.
NEO-2X-485	UNIVIEWNEO - Expansion dual port RS-485 module.
NEO-232	UNIVIEWNEO - Expansion single port RS-232 module.

Dimensions & Mounting



- 1 NCUNIVIEW-NEO controller. Allow at least 1.5" (38mm) clearance around all sides & minimum 3" (76mm) at bottom for Wi-Fi antenna
- 2 Expansion module. Up to four (4) may be used
- 3 Distances between center of tabs from one unit to another unit

Uniview Neo Controller - Remote IO (Expansion) Modules

IO-R-16	NRIO module with 8 Universal Inputs, 4 Relay Outputs, 4 Analog Outputs
IO-R-34	NRIO module with 16 Universal Inputs, 10 Relay Outputs, 8 Analog Outputs.
PMD2VA	90-240Vac to 15Vdc DIN rail mounting PSU 20VA.
PME3VA	90-240Vac to 15Vdc DIN rail mounting PSU 30VA.

Uniview Neo Controller - Base Licensing

NEO-100	Uniview Neo Core with 100 Proxy Points (requires Neo-250M-XX maintenance license to be purchased separately)
NEO-250	Uniview Neo Core with 250 Proxy Points (requires Neo-250M-XX maintenance license to be purchased separately)
NEO-500	Uniview Neo Core with 500 Proxy Points (requires Neo-500M-XX maintenance license to be purchased separately)
NEO-1250	Uniview Neo Core with 1250 Proxy Points (requires Neo-1250M-XX maintenance license to be purchased separately)
NEO-5000	Uniview Neo Core with 5000 Proxy Points (requires Neo-5000M-XX maintenance license to be purchased separately)

Ordering Codes

Uniview Neo Software Base Licensing (Cont'd)

NEO-10000	Uniview Neo Core with 10000 Proxy Points (requires Neo-10000M-XX maintenance license to be purchased separately)
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Uniview Neo Controller - Points Upgrade Licensing

NEO-DEV-10	500 Proxy Point Upgrade.
NEO-DEV-25	1250 Proxy Point Upgrade.
NEO-DEV-50	2500 Proxy Point Upgrade.

Uniview Neo Controller - Additional Driver Licensing

NEO-AX	Enables UNIVIEW NEO to run Netix AX
NEO-DR-AC	AC256 over RS-232 or RS-485 Driver
NEO-DR-AINF	Andover Infinity Driver
NEO-DR-APHP	AAM PHP Driver
NEO-DR-APUP	AAM PUP Driver
NEO-DR-CCN	Carrier CCN Driver
NEO-DR-FLEX	Flex Driver
NEO-DR-MCQUAY	McQuay Driver
NEO-DR-SMSALM	SMS Driver
NEO-DR-MFID	Micros Fidelio IP Driver

NOTE: For additional driver requirements, please contact NETIX Controls

Uniview Neo Controller - Software Maintenance Licensing

Neo-250M-1YR-INIT	Neo-250 - 1 Year Maintenance Initial (18 months).
Neo-250M-1YR	Neo-250 - 1 Year Maintenance Extension.
Neo-250M-3YR	Neo-250 - 3 Year Maintenance.
Neo-250M-5YR	Neo-250 - 5 Year Maintenance.
Neo-500M-1YR-INIT	Neo-500 - 1 Year Maintenance Initial (18 months).
Neo-M500-1 YR	Neo-500 - 1 Year Maintenance Extension.
Neo-M500-3 YR	Neo-500 - 3 Year Maintenance
Neo-M500-5 YR	Neo-500 - 5 Year Maintenance
Neo-M1250-1YR-INIT	Neo-1250 - 1 Year Maintenance Initial (18 months).
Neo-M1250-1YR	Neo-1250 - 1 Year Maintenance Extension.
Neo-M1250-3YR	Neo-1250 - 3 Year Maintenance
Neo-M1250-5YR	Neo-1250 - 5 Year Maintenance
Neo-M5000-1YR-INIT	Neo-5000 - 1 Year Maintenance Initial (18 months).
Neo-M5000-1YR	Neo-5000 - 1 Year Maintenance Extension
Neo-M5000-3YR	Neo-5000 - 3 Year Maintenance
Neo-M5000-5YR	Neo-5000 - 5 Year Maintenance
Neo-M10000-1YR-INIT	Neo-10000 - 1 Year Maintenance Initial (18 months).
Neo-M10000-1YR	Neo-10000 - 1 Year Maintenance Extension
Neo-M10000-3YR	Neo-10000 - 3 Year Maintenance
Neo-M10000-5YR	Neo-10000 - 5 Year Maintenance

Uniview Neo Controller - Analytics Framework Licensing

Neo-N4-BASE-25	Netix Analytics Framework (N4) license for 25 analytic points for an Embedded Controller (Neo). <i>Requires NO additional purchase of SMA (included as part of Neo controller base SMA license).</i>
NEO-EC-N4-100	Netix Analytics Framework (on N4) license for 100 analytic points for an Embedded Controller (Neo).
NEO-EC-N4-250	Netix Analytics Framework (on N4) license for 250 analytic points for an Embedded Controller (Neo).
NEO-EC-N4-500	Netix Analytics Framework (on N4) license for 500 analytic points for an Embedded Controller (Neo).
NEO-EC-N4-1000	Netix Analytics Framework (on N4) license for 1,000 analytic points for an Embedded Controller (Neo).

Uniview Neo Controller - N4 FIPS Level 1 Compliance

NEO-SP-FIPS	FIPS 140-2 for Uniview Neo products
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Software & Drivers

UNIVIEW Neo Controller software comes with several open point driver licenses such as BACnet/IP; BACnet MS/TP; LON; Modbus RTU; Modbus TCP; SNMP; KNX-IP; MBus TCP that cover most control situations. Other drivers can be purchased separately on a a-la-carte basis.