INNOTECH®

NeoLink

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NeoLink 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 NeoLink controller provides integrated control, supervision, data logging, alarming, scheduling and network management. NeoLink streams data and rich graphical displays to a standard web browser via an Ethernet or wireless LAN, or remotely over the internet. Niagara Enterprise Security is an application that runs within the Niagara Framework® on NeoLink. Niagara Analytics is a data analytics extension to the Niagara Framework available on NeoLink controllers. The licensing model for the NeoLink controller is simplified and features standard drivers, along with optional IO and field bus expansion modules for ultimate flexibility and expandability.

For optimum performance the NeoLink controller operates with Niagara 4, the latest version of the Niagara Framework. In larger facilities, multi-building applications and large-scale control system integrations, Niagara 4 Supervisors can be used with NeoLink controllers to aggregate information, including alarms, and historical and real-time data, to create a single, unified application.

KEY FEATURES

GLOBAL CAPACITY LICENSING AND UPGRADE CAPABILITY
- Determine the number of devices that will be integrated and select the right capacity license from the start. License upgrades can be purchased in the future as your needs grow.

MODULAR HARDWARE DESIGN FOR FAST AND EASY INSTALLATION
- Controller and option modules are designed for easy mounting on a 35mm-wide DIN rail.

EXPANDABLE WITH UP TO FOUR OPTION MODULES
- Option modules directly attach to the controller for additional communications ports

24V AC/DC—STANDARD GLOBAL POWER SUPPLY

INTUITIVE USER INTERFACE
- Users can easily check system status by glancing at the front panel LEDs to diagnose network issues.

CONNECTIVITY PROFILES
- Native Wi-Fi capability (WAP or Client)
- A, B, G or N networks
- Two 10/100Mb Ethernet ports
- Two isolated RS485 ports
- Optional LON FTT10 expansion

HARDWARE SPECIFICATIONS

TI AM3352: 1000MHz ARM® Cortex™-A8
1GB DDR3 SDRAM
Removable micro-SD card with 4GB flash total storage/2GB user storage
*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
*USB type A connector
*USB type A connector *Back-up and restore support*
(2) isolated RS-485 with selectable bias and termination
(2) 10/100MB Ethernet ports
Secure boot
**Supply requirements: 24VAC rated at 24VA minimum, or 24VDC rated at 1A (24W) minimum
Runs Niagara 4: 4.1 and later
Niagara Analytics 2.1 is compatible with Niagara 4.4 and 4.6
Real-time clock
Battery-less
Provides online/offline use of the Niagara Framework® Workbench graphical configuration tool and a comprehensive Java Object Library
Optional direct Ethernet-based driver support for most Open IP field bus protocols (see supported drivers document)

*Not supported with Niagara AX
**Niagara Enterprise Security requires four hours of standby power

SOFTWARE & SOFTWARE MAINTENANCE

Every NeoLink comes with a Niagara 4 software license and Tridium's standard drivers. Purchase of a software maintenance agreement (SMA) is required with initial NeoLink licensing. The initial SMA is for 18 months, with extended agreements of 3 years and 5 years available for discounted rates.

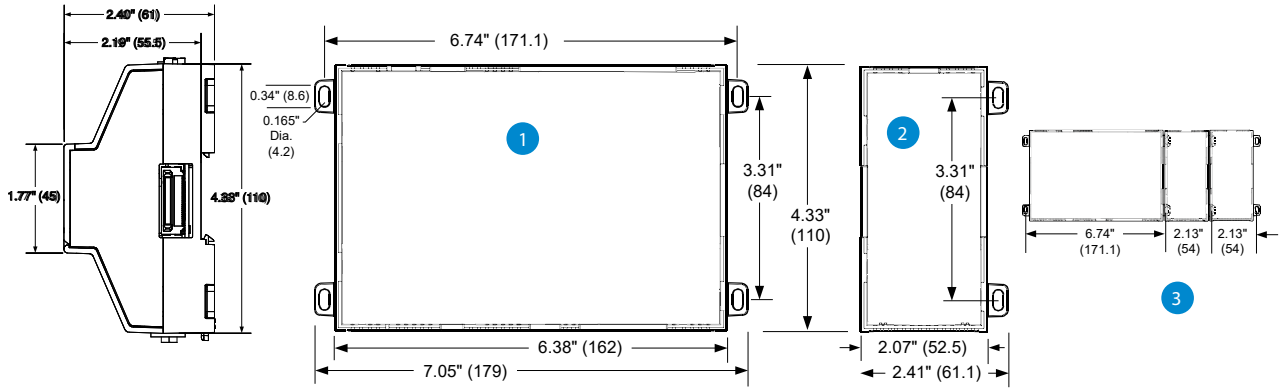
Note: If a Software Maintenance Agreement is not in effect for any period, the price of maintenance for the next period for which it is purchased will be priced at a cost equal to the maintenance fee for the period(s) for which maintenance was not purchased, up to a maximum of 5 years, plus the maintenance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

NIAGARA ANALYTICS

25 Niagara Analytic points are included with every NeoLink license. Niagara Analytics licenses are conveniently and cost-effectively based on the number of analytical points and do not expire. Your Software Maintenance Agreement covers all Niagara Analytics enhancements, adding to the value of the SMA.

NEOLINK CONTROLLER MOUNTING & DIMENSIONS

1. NeoLink controller - Allow at least 1.5" (38mm) clearance around all sides and minimum 3" (76mm) at bottom for Wi-Fi 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



Compatible with (DIN43880) enclosures

Suitable for mounting to a panel or to an EN50022 standard 35mm rail

Vizio stencils available upon request

AGENCY CERTIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

- Operating temperature: -20–60°C
- Storage temperature: -40–85°C
- Humidity: 5%–95% — Non-condensing
- Shipping & vibration: ASTM D4169, Assurance Level II
- MTTF: 10 years+