

## NGP-1100-U Universal Series IO

### Overview

The Lenel NGP Input Control Module (ICM) provides the access control system with high-speed acknowledgment of critical alarm points in monitored areas. The ICM communicates directly with the NGP Controller by 2-wire RS-485 communication. The ICM has 16 configurable input control points and 2 output control relays. It supports normally open, normally closed, supervised and non-supervised circuits.

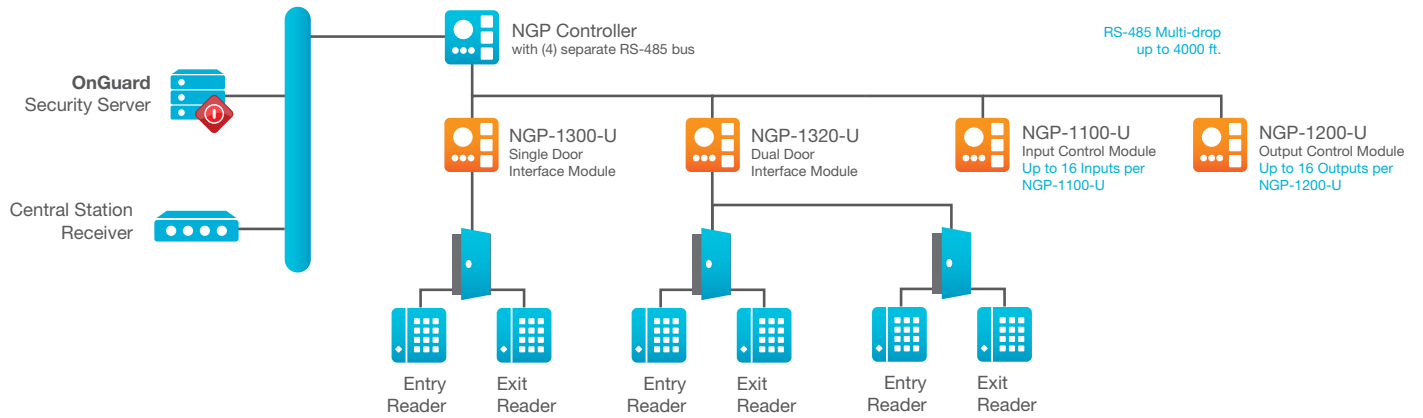
The input circuits are scanned using an analog-to-digital converter. The digitized input status signal is software-monitored and controlled, so that each input point can be programmed as a supervised or non-supervised alarm point.

The output relays can also be configured for fail-safe or fail-secure operation. Each relay supports the “On,” “Off,” and “Pulse” Lenel OnGuard software commands.



### FEATURES & FUNCTIONALITY

- Grade B, A, and AA line supervision
- 12 or 24 VDC input power
- 16 programmable supervised or non-supervised contacts
- 2 Form-C 5 A, 30 VDC contacts for load switching
- 4 dedicated unsupervised inputs for cabinet tamper, power failure, low voltage, and off the wall tamper
- On-board termination jumpers
- Status LED for host communication and heartbeat
- Variable resistor values for line supervision
- Downloadable firmware



## Power Supplies & Enclosures

<b>LNL-AL400ULX</b>	Lenel UL-listed 4 A, 110 VAC power supply - 12VDC 4A output, 120 VAC input, continuous supply current with enclosure (12 x 16 x 4.5 in. / 305 x 406 x 114 mm), lock and open frame transformer, tamper switch, UPS-capable (battery optional), UL-listed
<b>LNL-AL600ULX-4CB6</b>	Lenel UL-listed power supply - 12VDC 6A output, 120 VAC (1.6 A) input, continuous supply current with enclosure (18 x 24 x 4.5 in. / 457 x 610 x 114 mm), lock and open frame transformer, tamper switch, UPS-capable (battery optional), UL-listed
<b>ABT-12</b>	Battery Kit - 12VDC, 12 AH battery (PS-12120)
<b>LNL-CONV-1U</b>	Metal adapter plate to mount single full-size Universal Series IO Board (NGP-1100-U, NGP-1200-U, or NGP-1320-U) in any CTX enclosure, maximum two per LNL-CTX enclosure or maximum six per LNL-CTX6. Dimensions 8.1" x 6".
<b>LNL-CONV-2U</b>	Metal adapter plate to mount a two LNL-1300 or NGP-1300-U in any CTX enclosure, maximum two per LNL-CTX enclosure or maximum six per LNL-CTX6. Dimensions 8.1" x 6".

## Specifications

<b>Primary Power (DC)</b>	The ICM is for use in low voltage, power-limited, class 2 circuits only.
<b>DC Input</b>	12 to 24VDC + 10% - 300 mA @ 12VDC nominal - 150 mA @ 24VDC nominal - 12.3 BTU/hour
<b>Environmental</b>	
<b>Temperature</b>	Operating: 14 to 158° F (-10 to +70°C) Storage: -40 to 185°F (-40 to +85°C)
<b>Humidity</b>	10% at 93°C (199°F) non-condensing operating, 10 to 95% at 85°C (185°F) non-condensing storage
<b>Mechanical</b>	
<b>Dimension</b>	5 x 8 x 1.25 in. (127 x 203 x 32 mm)
<b>Weight</b>	6.2 oz. (188 g) nominal
<b>Approvals</b>	UL 294 and 1076-listed, FCC Part 15 Class A, CE-marked, RoHS compliant, C-Tick 22193, s319, WEEE

<b>Cable Requirements</b>	
<b>Power</b>	18 AWG, 1 stranded twisted pair
<b>RS-485</b>	24 AWG, 120 ohm impedance, stranded twisted pair with shield, 4000 feet (1219 m) maximum
<b>Inputs</b>	1 stranded twisted pair per input, 30 ohms maximum
<b>Outputs</b>	As required for the load

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(866) 788-5095

Specifications subject to change without notice.

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