NGP-1320-U
Universal Series IO

Overview

Lenel Systems International offers a Dual Door Interface (DDI) module for access control solutions. Most access control card readers, keypads, or readers with keypads that use standard Wiegand Data1/Data0 or Clock/Data communication are supported. Each DDI can support both in and out readers at each of the two door locations. Lock, unlock, and facility code offline access modes are supported on all readers connected to the DDI. Each DDI supports up to eight different card formats as well as issue codes for both magnetic and Wiegand card formats.

The DDI provides a vital link between the NGP Controller and the card reader attached to the interface. As many as 24 DDI modules can be multidropped using RS-485 2-wire communication up to 4,000 feet per port away from the ISC. Each DDI module is individually addressed for increased reporting capabilities with OnGuard access control software applications. The DDI includes eight inputs that support normally open, normally closed, supervised, and non-supervised circuits. In addition, six output relays support fail-safe or fail-secure operation.

FEATURES & FUNCTIONALITY

- 12 or 24 VDC power supply
- Supports Data1/Data0, Clock/Data readers and keypads
- Downloadable firmware
- Six Form-C 5 A at 30 VDC relay outputs
- Up to 8 different card formats
- Issue code support for magnetic and Wiegand formats
- Door contact supervision (open/closed)
- REX push-button monitor
- Strike control output
- Bicolor reader status LED support and 2-wire LED support
- Beeper control
- Dedicated tamper and power failure circuits
- Support for offline reader access mode
- On-board jumpers for RS-485 termination
- On-board regulator allows 12 VDC reader support from 24 VDC power source
Power Supplies & Enclosures

**LNL-AL400ULX**
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

**LNL-AL600ULX-4CB6**
Lenel UL-listed power supply - 12VDC 8A 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

**ABT-12**
Battery Kit - 12VDC, 12 AH battery (PS-12120)

**LNL-CONV-1U**
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".

**LNL-CONV-2U**
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

**Primary Power (DC)**
The SDI is for use in low voltage, power-limited, class 2 circuits only.

| DC Input | 12 to 24VDC + 10%  
| - 1200 mA @ 12VDC nominal (includes reader current), 460 mA @ 12VDC (without readers)  
| - 600 mA @ 24VDC nominal (includes reader current), 230 mA @ 24VDC (without readers)  
| - 49.1 BTU/hour |

| DC Output | 400 mA @ 12VDC maximum to 50°C, derate to 300 mA for 70°C |

| Reader Port Compatibility | Wiegand Data1/Data0  
| Magnetic Clock/Data  
| F/2F single-wire protocol |

**Environmental**

| Temperature | Operating: 14 to 158° F (-10 to +70°C)  
| Storage: -40 to 185°F (-40 to +85°C) |

| humidity | 0 to 95% RHNC |

| Approvals | UL 294 and 1076-listed, FCC Part 15 Class A, CE-marked, RoHS compliant, C-Tick 22193, s319, WEEE |

**Mechanical**

| Dimension | 5 x 8 x 1.25 in. (127 x 203 x 32 mm) |

| Weight | 7.3 oz. (207 g) nominal |

| Approvals | UL 294 and 1076-listed, FCC Part 15 Class A, CE-marked, RoHS compliant, C-Tick 22193 |

**Cable Requirements**

| Power | 18 AWG, 1 stranded twisted pair |

| RS-485 | 24 AWG, 120 ohm impedance, stranded twisted pair with shield, 4000 feet (1219 m) maximum |

| Inputs | 1 stranded twisted pair per input, 30 ohms maximum |

| Outputs | As required for the load |

| Reader Data (Wiegand, Clock and Data) | 6 conductors, 18 AWG stranded, 500 feet (152.4 m) maximum |

| Reader Data (RS-485) | 24 AWG, 120 ohm impedance, stranded twisted pair with shield, 4000 feet (1219 m) maximum |