



# LNL-8000

## Lenel Star Multiplexer

### Overview

The Star Multiplexer from Lenel was designed to implement star topology on a downstream port of any Lenel Intelligent System Controller or on any host communication port of any OnGuard server. Up to eight RS-485 (2-wire) connections or four RS-485 (4-wire) connections can be made downstream of the LNL-8000. The Lenel Star Multiplexer requires 12 VDC for power. It allows communication protocol conversion, and provides connection with alternate communication devices to extend effective distances.

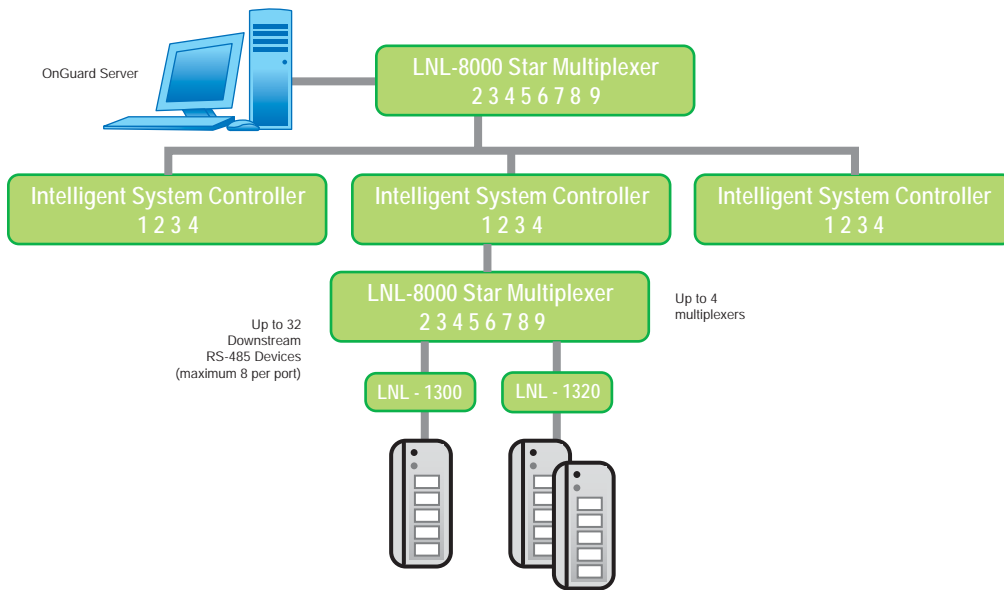
The master or host interface can use either RS-232 or RS-485 (2-wire) communication. The Lenel Star Multiplexer interfaces upstream with the Lenel Intelligent System Controller, and downstream with one of many Lenel RS-485 products (including the LNL-1100 Input Control Module, LNL-1200 Output Control Module, LNL-1300 Single Reader Interface Module, LNL-1320 Dual Reader Interface Module and LNL-500A, B, or W Gateway Interface Modules) on each downstream port (ports 2-9). A maximum of eight (8) devices are allowed per downstream port.

### Features and Functionality

- Host communications - 38.4 Kbps direct wire (RS-232/RS-485 multidropped)
- 12 VDC input power
- Status LEDs for heartbeat, upstream and downstream communication
- Support for either 2-wire or 4-wire RS-485 topologies
- RS-485 onboard termination is jumper selectable
- Can be used for retrofit and new wiring configurations
- UL 294 and 1076 listed, CE marked



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## Mechanical and Architectural Characteristics and Wiring

Requirements	The acceptable power supply is 12 VDC. Locate the power source as close as possible to the LNL-8000. Use a minimum of 18 AWG (one twisted pair) wiring for the power supply.
Communications	Communication with the Intelligent System Controller is via a 2-wire or 4-wire RS-485 interface. The interface allows multidrop communication on a single ISC port, up to 4,000 feet away per port. It also can be used to convert a single RS-232 communication port to a multidrop RS-485 port. Use twisted pair(s) with a minimum of 24 AWG and a shield for communication. The 2-wire or 4-wire communications with end-of-line termination are jumper-selectable.

## Power Supplies & Enclosures

LNL-AL400ULX	Lenel UL-listed 4 A, 110 VAC power supply - 12 VDC or 24 VDC 4 A output (switch-selectable), 120 VAC input, continuous supply current with enclosure (12 x 16 x 4.5 in.), lock and open frame transformer, tamper switch, UPS capable (battery optional), UL-approved
LNL-AL600ULX-4CB6	Lenel UL-listed power supply - 12 VDC or 24 VDC 6 A output (switch-selectable), 120 VAC (1.6 amps) input, continuous supply current with enclosure (18 x 24 x 4.5 in.), lock and open frame transformer, tamper switch, UPS capable (battery optional), UL-approved
ABT-12	Battery kit - 12 VDC, 12 AH battery (PS-12120)

## Specifications

<b>Primary Power (DC or AC)</b>	* This module is for use in low voltage, power limited, class 2 circuits only.
DC input:	12 VDC ± 15%, 250 mA
<b>Environmental</b>	
Temperature:	Operating: 0° to +70° C (32° to 158° F) Storage: -55° to +85° C (-67° to 185° F)
Humidity:	0 to 95% RHNC
<b>Mechanical</b>	
Dimensions:	6 x 5 x 1 in. (152 x 127 x 25 mm)
Weight:	4 oz. (180 g) nominal
<b>Approvals</b>	UL 294 and 1076 listed, CE marked