

# AI Edge Controller

## XNC Lite Series

### Overview

The XNC Lite Series AI edge controllers are advanced bus programmable controllers which are part of Advenco LUBAN solutions. The controllers are designed for a wide variety of complex applications, such as cooling, heating, water supply and drainage, lighting, air handling unit and ventilation systems, etc. These devices feature RS485 ports for BACnet™ MS/TP, Modbus RTU.

The controllers continue to perform time-based operations even when disconnected from the system network.

The controllers can be mounted on a DIN rail in horizontally orientations.



### Features

- Delivers high performance with ARM Cortex-M4 32-bit MCU.
- BTL tested BACnet communication on BACnet IP or MS/TP, conforms to BACnet™ Standard ANSI/ASHRAE 135 protocol version 1.20 (ISO 16484-5).
- BACnet Auto-Discovery enables seamless integration of new devices with no manual configuration.
- Adaptable to Open Harmony operating system for diverse market requirements.
- Engineering and commissioning with the XControl tool using graphical function charts.
- Support standard or custom complex applications downloading from XControl.
- Integration of Modbus data points via RTU and / or TCP.
- BLE connection for engineering and commissioning.
- End-of-Line (EOL) switch enables the controller to act as termination device on the communication bus.
- Pluggable terminal blocks for easy installation and maintenance.
- Modern design LED to show the operational status of the controller.
- Standard DIN rail mounting.

### Ordering Information

Product Number	Point Capacity (Max)	RS485↑Port	RS485↓Port	Onboard I/O
BAC-3542-100	100	1	1	2UI 6DI 2DO
BAC-3542-460	100	1	1	4UIO 6DI
BAC-3532-081	100	1	1	8UI
BAC-3532-082	100	1	1	6DI 2DO

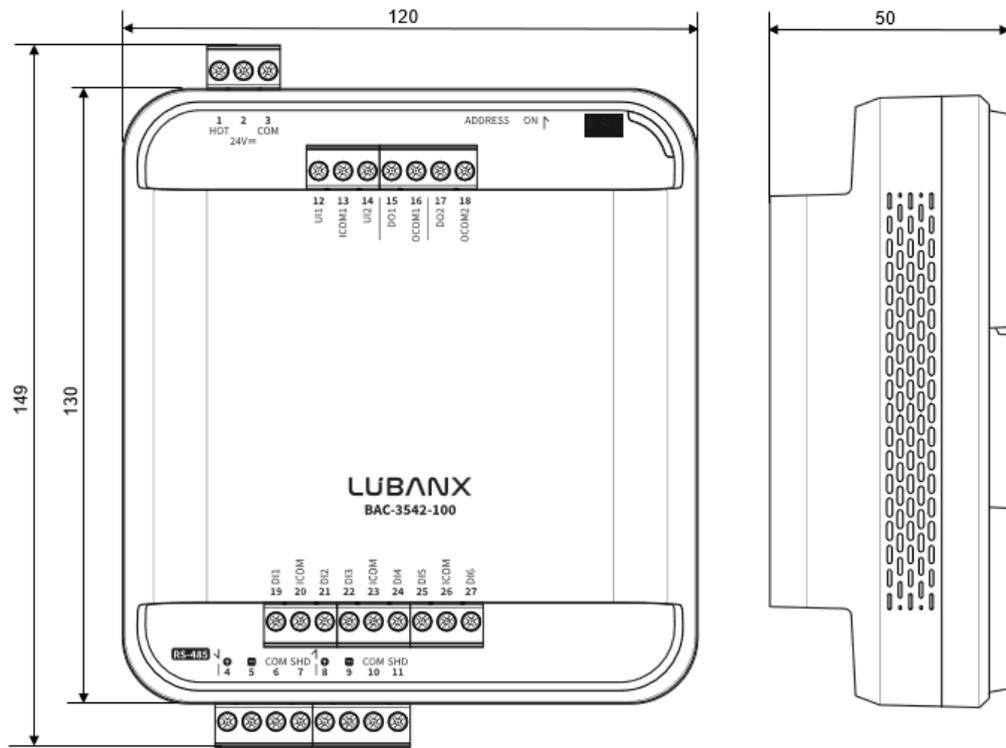
Remark: RS485↓Port means the connected extension port of the controller.

## Product Specification

<b>Processor</b>	ARM Cortex-M4 32-bit
<b>Memory</b>	2MB RAM and 10MB flash memory
<b>Operating System</b>	Open Harmony
<b>Power Requirement</b>	24 VAC±20%, 50/60Hz; 24 VDC (-10%~+20%)
<b>Power Consumption</b>	12 VA (Typical)
<b>Environment</b>	<b>Operating:</b> -4°F to 122°F (-20 to +50 °C); 10 to 90% RH non-condensing <b>Storage:</b> -40°F to 158°F (-40 to +70 °C); 5 to 95% RH non-condensing
<b>Communications Protocol</b>	BACnet MS/TP, Modbus RTU
<b>Terminations</b>	<b>I/O:</b> Pluggable terminal blocks <b>Power Supply &amp; RS485:</b> 2-wire or 3-wire pluggable terminal blocks
<b>Protection</b>	IP20(IEC529)
<b>Housing Material</b>	ABS+PC
<b>Certification</b>	CE, RoHS, REACH, BTL(B-SAC)
<b>Mounting</b>	35mm DIN rail mounting (horizontal orientation)
<b>Dimensions (W×H×D)</b>	120mm ×149mm × 50 mm
<b>Weight</b>	0.45kg

Input/Output	
<b>UI</b>	0-10VDC, 4-20mA, Resistance, Dry contact
<b>AO</b>	0-10VDC, 4-20mA
<b>DO</b>	TRIAC output 24 VAC (requires external power supply)
<b>DI</b>	Dry Contact, Pulse counting (Max.50Hz)
<b>UIO</b>	<b>Input:</b> 0-10VDC, 4-20mA, Resistance, Dry contact <b>Output:</b> 0-10VDC, 4-20mA
<b>UI Resolution</b>	24 bit
<b>AO Resolution</b>	16 bit
<b>UIO Resolution</b>	<b>Input:</b> 16 bit; <b>Output:</b> 13 bit

### Dimensions (mm)



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All specifications herein are current as of the document revision and subject to change without notice.