

Controller - ILC 2050 BI - 2403160

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The modular Inline controller for automation applications in infrastructure, energy, and buildings is based on the Niagara 4 framework. Four LAN, two USB, and two RS-485 interfaces are integrated. The controller can be extended with numerous Inline I/O modules.


Product Description

The ILC 2050 BI is a modular controller specifically for automation applications in infrastructure, energy, and buildings. It is characterized by its scalability and unlimited range of applications in hardware and software. Whether building automation, the development of new business models, controlling networked real estate, data centers or infrastructure management – the ILC 2050 BI controls it all.

Why buy this product

- Time-optimized engineering using the Niagara 4 framework
- Support for all the main communication protocols used in building infrastructure automation
- Planning, engineering, and visualization in the Java-based Niagara 4 framework
- Easy extension of the Niagara 4 framework with self-programmed functions

Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 260587
GTIN	4055626260587
Weight per Piece (excluding packing)	320.000 g
Custom tariff number	85371091
Country of origin	Germany

Technical data

Dimensions

Width	80 mm
Height	119.8 mm
Depth	71.5 mm

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Technical data

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	0 % ... 75 % (according to DIN EN 61131-2, non-condensing, no ice formation)
Air pressure (operation)	70 hPa ... 106 kPa (up to 3000 m above mean sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above mean sea level)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO ₂) 10 ±0.3 ppm (test duration: 10 days), hydrogen sulfide (H ₂ S) 1 ±0.3 ppm (test duration: 4 days), both at 25°C and with 75% humidity

Control system

Programming tool	Niagara 4
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Mechanical design

Weight	230 g
Diagnostics display	No
Controller redundancy	No

Data interfaces

Interface	Ethernet
Number	4
Connection method	RJ45 socket, shielded
Transmission speed	10/100 Mbps
Interface	RS-485
Number	2
Connection method	Spring-cage connection
Transmission speed	max. 200 kbps
Interface	USB 1.0/USB 2.0
Number	1
Connection method	USB type A, socket
Interface	USB OTG
Number	1
Connection method	Mini-USB
Interface	microSD
Number	1 (Top)
Connection method	microSD slot
Protocols supported	BACnet/IP
	BACnet MS/TP only at COM1 and COM2
	Modbus/TCP

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Technical data

Data interfaces

	Modbus/RTU
	KNX IP
	SNMP
	oBIX
	DALI
	LON
	and many more

Power supply

Typical current consumption	≤ 170 mA (at nominal voltage without local bus device)
Max. current consumption	≤ 1.5 A
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC

Fieldbus function

Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63 (observe current consumption)

General data

Processor	ARM® Cortex®-A8 1000 MHz
Operating systems	Linux
RAM	DDR3 SDRAM512 Mbyte

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Approvals

Approvals

Approvals


UL Listed / cUL Listed / cULus Listed


Ex Approvals


Approval details

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Approvals

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cULus Listed			
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