

## Controller - ILC 2050 BI - 2403160

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The modular Inline controller for automation applications in buildings, infrastructure, and energy for connection with standard automation technology with the Internet of Things (IoT). The controller makes it possible to implement complex systems efficiently. Licenses for use in production systems are available separately.

### Product Description


The ILC 2050 BI is the central controller for automation of buildings, infrastructure, and energy. The industrial design guarantees a high level of reliability and therefore makes the ILC 2050 BI suitable for business-critical applications. It is equipped with four LAN, two USB and two RS-485 interfaces. The controller can be extended with numerous Inline modules for digital and analog I/Os and for all standard bus systems. The corresponding drivers ensure uniform interfaces, thus greatly simplifying system integration.

### Your advantages

- 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 pc
GTIN	 4 055626 260587
GTIN	4055626260587
Weight per Piece (excluding packing)	243.000 g
Custom tariff number	85371091
Country of origin	Germany

### Technical data

#### Dimensions

Width	80 mm
Height	119.8 mm
Depth	71.5 mm

#### Ambient conditions

Degree of protection	IP20
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## Technical data

### Ambient conditions

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 sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO <sub>2</sub> ) 10 ±0.3 ppm (test duration: 10 days), hydrogen sulfide (H <sub>2</sub> S) 1 ±0.3 ppm (test duration: 4 days), both at 25°C and with 75% humidity

### Control system

Engineering tool	Niagara 4
	WorkPlace
Programming languages supported	Niagara Framework®

### Mechanical design

Weight	230 g
Diagnostics display	No
Controller redundancy	No
Safety function	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

### 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

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## Technical data

### Power supply

Supply voltage range	19.2 V DC ... 30 V DC
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### Fieldbus function

Amount of process data	max. 4096 Bit (INTERBUS)
Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63 (observe current consumption)
Number of devices with parameter channel	max. 16 (PCP devices are tolerated – however, PCP is not actively supported)

### General data

Processor	Arm® Cortex®-A8 1000 MHz
Operating system	Linux
RAM	1024 Mbyte DDR3 SDRAM

### Environmental Product Compliance

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

## Classifications

### eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27240601
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242207
eCl@ss 8.0	27242207
eCl@ss 9.0	27242207

### ETIM

ETIM 2.0	EC000236
ETIM 3.0	EC000236
ETIM 4.0	EC000236
ETIM 5.0	EC000236
ETIM 6.0	EC000236
ETIM 7.0	EC000236

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172018
UNSPSC 12.01	43201404

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### Classifications

#### UNSPSC

UNSPSC 13.2	43201404
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### Approvals

#### Approvals

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#### Approvals

UL Listed / cUL Listed / cULus Listed

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#### Ex Approvals

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### Approval details

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