2404671

https://www.phoenixcontact.com/us/products/2404671



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Modular Inline controller for automation applications in the fields of building technology, infrastructure, and energy technology. Equipped with two logically separated IP address interfaces each with 2 integrated Fast Ethernet ports. Configurable assignment of the Ethernet ports for the use of the Spanning Tree Protocol, daisy chain and redundant ring structures for optimum availability. 4 LAN, 2 USB, and 2 RS-485 interfaces are integrated. It enables the direct connection of LonMark TP/FT-10 networks. The data point connections can be extended with up to 63 Inline I/O modules.

Product description

The ILC 2050 BI-L is the central controller for the automation of buildings, infrastructure, and energy. The industrial design guarantees a high level of reliability and therefore also makes the ILC 2050 BI-L suitable for business-critical applications. It is equipped with four LAN, two USB, and two RS-485 interfaces. It enables the direct connection of LonMark TP/FT-10 networks. The controller can be extended with a wide range of Inline modules for digital and analog I/Os and for all widely used 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
- Direct connection of LonMark TP/FT-10 networks (in accordance with the CEA-709 standard)
- · Planning, engineering, and visualization in the Java-based Niagara 4 framework
- · Easy extension of the Niagara 4 framework with self-programmed functions

Commercial data

| Item number | 2404671 |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DR18 |
| Product key | DRHAAA |
| GTIN | 4055626933030 |
| Weight per piece (including packing) | 330.5 g |
| Weight per piece (excluding packing) | 243 g |
| Customs tariff number | 85371091 |
| Country of origin | DE |



https://www.phoenixcontact.com/us/products/2404671



Technical data

Product properties

| Туре | modular |
|----------------|-------------------|
| Product type | Controller |
| Product family | Inline-Controller |

System properties

| Retentive data storage 2 GByte | e (eMMC) |
|--------------------------------|-----------------|
| RAM 1024 M | byte DDR3 SDRAM |

IEC 61131 runtime system

| Program memory | 1 GByte (SRAM) |
|---------------------|------------------|
| Data storage system | 1.8 GByte (eMMC) |

Functionality

| Programming languages supported | Niagara Framework [®] |
|---------------------------------|--------------------------------|
| System requirements | |

System requirements

| Engineering tool | Emalytics |
|------------------|-----------|
|------------------|-----------|

Electrical properties

Supply

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

Real-time clock

| Realtime clock | Yes |
|----------------------------|--|
| Description realtime clock | integrated (rechargeable battery buffered) |

Potentials

| Supply voltage | 24 V DC -15 % / +20 % (in accordance with EN 61131-2) |
|----------------------|---|
| Supply voltage range | 19.2 V DC 30 V DC |

Connection data

Inline connector

| Connection method | Spring-cage connection |
|-----------------------------------|--|
| Conductor cross section, rigid | 0.08 mm ² 1.5 mm ² |
| Conductor cross section, flexible | 0.08 mm² 1.5 mm² |
| Conductor cross section AWG | 28 16 |

Interfaces



https://www.phoenixcontact.com/us/products/2404671





https://www.phoenixcontact.com/us/products/2404671



Dimensions

| Width | 80 mm |
|--------|----------|
| Height | 119.8 mm |
| Depth | 71.5 mm |

Material specifications

| Color | green |
|-------|-------|

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP20 |
|--|--|
| Ambient temperature (operation) | -25 °C 55 °C (observe derating) |
| Ambient temperature (storage/transport) | -25 °C 85 °C |
| Permissible humidity (operation) | 0 % 75 % (according to DIN EN 61131-2) |
| Permissible humidity (storage/transport) | 0 % 75 % (according to DIN EN 61131-2) |
| Air pressure (operation) | 70 kPa 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 70 hPa 106 kPa (up to 3000 m above sea level) |
| GRP_Temperature class | T4 |
| 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_2S) 1 ±0.3 ppm (test duration: 4 days), both at 25°C and with 75% humidity |

Mounting

| Mounting type DIN rail mounting | |
|---------------------------------|--|
|---------------------------------|--|



https://www.phoenixcontact.com/us/products/2404671



Classifications

UNSPSC 21.0

ECLASS

| ECLASS-11.0 | 27242207 | |
|-------------|----------|--|
| ECLASS-12.0 | 27242207 | |
| ECLASS-13.0 | 27242207 | |
| ETIM | | |
| ETIM 9.0 | EC000236 | |
| UNSPSC | | |

32151700



https://www.phoenixcontact.com/us/products/2404671



Environmental product compliance

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

Phoenix Contact 2024 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com