

Controller - AXC F 1152 - 1151412

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PLCnext Control for the direct control of Axioline F I/Os. With two Ethernet interfaces. Complete with connector and bus base module.

Product Description

The controllers of the PLCnext Control AXC F 1152 family for the Axioline I/O system are fast, robust, and easy to use. They were consistently designed for maximum performance, easy handling and use in harsh industrial environments.

Your advantages

- ✓ PROFINET support
- ✓ Connection to PROFICLOUD
- ✓ Numerous protocols supported such as: http, https, FTP, SNMP, SMTP, SQL, MySQL, DCP, etc.
- ✓ Up to 63 AXIO I/O modules can be mounted side by side
- ✓ 2 x Ethernet interfaces (integrated switch)
- ✓ Increased resistance to EMI
- ✓ Extended temperature range of -25°C ... +60°C
- ✓ Linux operating system
- ✓ Supports high-level languages



Key Commercial Data

| | |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4063151149420 |
| Weight per Piece (excluding packing) | 225.600 g |
| Custom tariff number | 85371091 |
| Country of origin | Germany |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Controller - AXC F 1152 - 1151412

Technical data

Dimensions

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|--------|-----------|
| Width | 45 mm |
| Height | 126.93 mm |
| Depth | 75 mm |

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 60 °C up to 2000 m above mean sea level (observe derating) |
| | -25 °C ... 55 °C up to 3000 m above mean sea level (observe derating) |
| | ≤ 55 °C (with max. 1 A on U _{Bus}) |
| | > 55 °C ... 60 °C (only in conjunction with an Axioline F power module AXL F PWR 1H (order number 2688297)) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 5 % ... 95 % (according to DIN EN 61131-2) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (according to DIN EN 61131-2) |
| Air pressure (operation) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 58 kPa ... 106 kPa (up to 4500 m above mean sea level) |
| Shock | 30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27 |
| Vibration (operation) | 5g |

Control system

| | |
|---------------------------------|--------------------------------------|
| Engineering tool | PLCnext Engineer |
| | Eclipse |
| Programming languages supported | Programming in acc. with IEC 61131-3 |
| | C++ |
| | C# |
| | Java |
| | Manufacturer-specific |
| Supports cloud computing | yes |
| Cloud platform | Proficloud |

General data

| | |
|------------------|----------------------------|
| Processor | Arm® Cortex®-A9 1x 800 MHz |
| Operating system | Linux |
| RAM | 512 Mbyte DDR3 SDRAM |

IEC 61131 runtime system

| | |
|-------------------------|------------------------------|
| Engineering tool | PLCnext Engineer |
| | Eclipse |
| Program memory | 8 Mbyte |
| Mass storage | 16 Mbyte |
| Retentive mass storage | 48 kByte (NVRAM) |
| Realtime clock | Yes |
| Accuracy realtime clock | 1.73 s/day = 20 ppm at 25 °C |

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Fieldbus function

| | |
|---|---|
| Amount of process data | max. 8192 Bit (per station) |
| | max. 4096 Bit (Axioline F local bus (input)) |
| | max. 4096 Bit (Axioline F local bus (output)) |
| Number of supported devices | max. 63 (per station) |
| Number of local bus devices that can be connected | max. 63 (observe current consumption) |
| Program memory | 8 Mbyte |

Data interfaces

| | |
|---------------------|---------------------------|
| Interface | Axioline F local bus |
| Number | 1 |
| Connection method | Bus base module |
| Transmission speed | 100 Mbps |
| Interface | Ethernet |
| Number | 2 |
| Connection method | RJ45 jack |
| Transmission speed | 10/100 Mbps (full duplex) |
| Protocols supported | HTTP |
| | HTTPS |
| | SFTP |
| | SNTP |
| | SNMP |
| | IPsec |
| | syslog |
| | OPC UA |

PROFINET

| | |
|-----------------|--------------------------------------|
| Device function | PROFINET controller, PROFINET device |
| Specification | Version 2.3 |
| Update rate | min. 1 ms (4 devices) |
| | min. 4 ms (16 devices) |

Mechanical design

| | |
|-----------------------|-------|
| Weight | 215 g |
| Diagnostics display | No |
| Controller redundancy | No |
| Safety function | No |

Standards and Regulations

| | |
|-------------------------------|---|
| Vibration (storage/transport) | 5g |
| Shock | 30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27 |
| Vibration (operation) | 5g |
| Shock (operation) | 10g (Bump endurance test according to DIN EN 60068-2-27) |

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Environmental Product Compliance

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|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|