

Controller - AXC F 2152 - 2404267

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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 PLCnext AXC F 2152 controller for the Axioline I/O system is fast, robust and easy to use. It has been consistently designed for maximum performance, easy handling and use in harsh industrial environments.

Why buy this product

- ✓ 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 STK
GTIN	 4 055626 356280
GTIN	4055626356280
Weight per Piece (excluding packing)	380.000 g
Custom tariff number	85371091
Country of origin	Germany

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Technical data

Note

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

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 mean 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	PC WORX ENGINEER
	Eclipse
Programming languages supported	Programming in acc. with IEC 61131-3
	C++
	Manufacturer-specific

IEC 61131 runtime system

Engineering tool	PC WORX ENGINEER
	Eclipse
Program memory	8 Mbyte
Mass storage	16 Mbyte
Retentive mass storage	48 kByte (NVRAM)
Realtime clock	Yes

Fieldbus function

Amount of process data	max. 8192 Bit (per station)
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Fieldbus function

	max. 4096 Bit (Input)
	max. 4096 Bit (Output)
Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 63 (observe current consumption)

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 socket
Transmission speed	10/100 Mbps (full duplex)

PROFINET

Device function	PROFINET controller, PROFINET device
Specification	Version 2.3
Update rate	min. 1 ms (4 devices)
	min. 16 ms (64 devices)

Mechanical design

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

General data

Processor	ARM® Cortex®-A9 2x 800 MHz
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Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Interference emission	Noise emission test as per EN 61000-6-4 Class A
Immunity to surge	Noise immunity test in accordance with EN 61000-6-2 Transient overvoltage (surge) EN 61000-4-5/IEC 61000-4-5 Criterion B, DC supply lines: ± 0.5 kV/ ± 0.5 kV (symmetrical/asymmetrical), fieldbus cable shield: ± 1 kV
Immunity to burst	Noise immunity test in accordance with EN 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion B, 2 kV
Immunity to EF	Noise immunity test in accordance with EN 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m

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Standards and Regulations

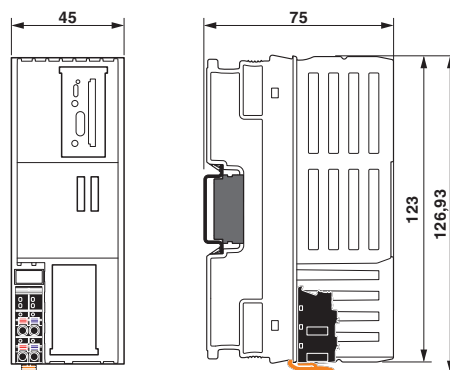
Immunity to ESD	Noise immunity test in accordance with EN 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B, 6 kV contact discharge, 8 kV air discharge
Vibration (storage/transport)	5g
Shock	30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27
Vibration (operation)	5g
Shock (operation)	10g (Bump endurance test according to EN 60068-2-29)

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27240602
eCl@ss 4.1	27240602
eCl@ss 5.0	27242589
eCl@ss 5.1	27242590
eCl@ss 6.0	27242590
eCl@ss 7.0	27242590
eCl@ss 8.0	27242207
eCl@ss 9.0	27242207

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Classifications

ETIM

ETIM 3.0	EC001045
ETIM 4.0	EC001435
ETIM 5.0	EC000236
ETIM 6.0	EC000236

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed


Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

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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Accessories

Accessories

I/O component

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Accessories

Power module - AXL F PWR 1H - 2688297



Axioline F, Power module for the logic supply U_{Bus} , max. 4 A, degree of protection: IP20, including bus base module and Axioline F connector

Parameterization memory

Program / configuration memory - SD FLASH 2GB PLCNEXT MEMORY - 1043501



Program and configuration memory for storing the application programs and other files in the file system of the PLC.

Programming

Software - PC WORX ENGINEER 7 - 1046008



Engineering software platform for Phoenix Contact automation controllers. PC Worx Engineer is IEC 61131-3-compliant and its functionality can be expanded using add-ins.

Spare parts

Bus connector - AXL BS BK - 2701422



Axioline F bus base module for housing type BK