

## 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 AXCF 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.

### Your advantages

- ✓ PROFINET support
- ✓ Connection to PROFICLOUD
- ✓ Numerous protocols supported such as: http, https, FTP, SNT, 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	4055626356280
Weight per Piece (excluding packing)	387.000 g
Custom tariff number	85371091
Country of origin	Germany

### Technical data

#### Note

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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 <sub>Bus</sub> )
	> 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++
	Manufacturer-specific

### General data

Processor	Arm® Cortex®-A9 2x 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

### 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)

### Power supply

Typical current consumption	200 mA (without I/Os and $U_L = 24\text{ V}$ )
Max. current consumption	442 mA (with 1 A at $U_{Bus}$ for the I/Os and $U_L = 24\text{ V}$ )
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC

### Mechanical design

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

### 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: $\pm 0.5\text{ kV}/\pm 0.5\text{ kV}$ (symmetrical/asymmetrical), fieldbus cable shield: $\pm 1\text{ kV}$
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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## Technical data

### Standards and Regulations

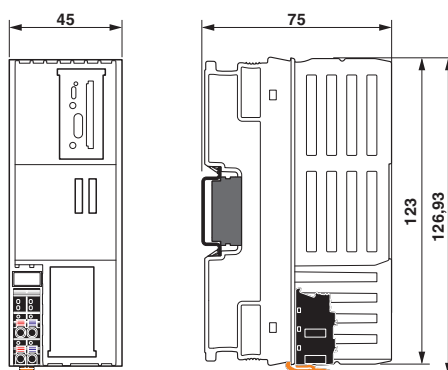
Immunity to ESD	Noise immunity test in accordance with EN 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B, 6 kV contact discharge, 8 kV air discharge
Immunity to conducted interference	Noise immunity test in accordance with EN 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A; Test voltage 10 V
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)

### 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	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242207
eCl@ss 8.0	27242207
eCl@ss 9.0	27242207

### ETIM

ETIM 3.0	EC001045
ETIM 4.0	EC001435

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## Classifications

### ETIM

ETIM 5.0	EC000236
ETIM 6.0	EC000236

## Approvals

### Approvals

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### Approvals

DNV GL / ABS / BSH / RINA / UL Listed / cUL Listed / UL Listed / cUL Listed / ABS / DNV GL / RINA / BSH

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### Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / cULus Listed

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## Approval details

DNV GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	TAA00000DF
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ABS		<a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>	18-HG1767360-PDA
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BSH		<a href="http://www.bsh.de/de/index.jsp">http://www.bsh.de/de/index.jsp</a>	840
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RINA		<a href="http://www.rina.org/en">http://www.rina.org/en</a>	ELE256518XG
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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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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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## Approvals

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ABS		<a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>	18-HG1767360-PDA
DNV GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	TAA00000DF
RINA		<a href="http://www.rina.org/en">http://www.rina.org/en</a>	ELE256518XG
BSH		<a href="http://www.bsh.de/de/index.jsp">http://www.bsh.de/de/index.jsp</a>	840

## Accessories

### Accessories

#### I/O component

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

Extension module - AXC F IL ADAPT - 1020304



Right-alignable Inline adapter terminal (INTERBUS master) for a PLCnext controller for setting up a PLCnext Inline station

Extension module - AXC F XT ETH 1TX - 2403115



Left-alignable Ethernet interface, for connection to a compatible modular controller from the Axioccontrol range.

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### Accessories

#### 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, pluggable, 2 GB.

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#### Programming

Software - PLCNEXT ENGINEER - 1046008



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

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#### Programming cable

Connecting cable - CAB-USB C/ USB C/1,8M - 1021809



Connecting cable, for connecting the controller to a PC from USB C to USB C

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Connecting cable - CAB-USB A/ USB C/1,8M - 2404677



Connecting cable, for connecting the controller to a PC from USB A to USB C

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#### Spare parts

Bus connector - AXL BS BK - 2701422



Axioline F bus base module for housing type BK

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