

## Controller - AXC 1050 XC - 2701295

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Axiocomputer for the direct control of Axioline I/Os. With 2 Ethernet interfaces, extended temperature range, and programming options according to IEC 61131-3. Complete with connector connector and marking field.

### Product Description

The AXC 1050/XC modular small-scale controller for the Axioline I/O system is fast, robust, and easy, i.e., it is consistently designed for maximum performance, easy handling, and use in harsh industrial environments in the extended temperature range from -40°C to +70°C.

### Product Features

- ✓ PROFINET-Device
- ✓ MODBUS TCP Client
- ✓ Numerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.
- ✓ Free engineering with PC Worx Express (IEC 61131-3)
- ✓ Maritime approvals (GL, DNV, LR, BV, RINA, ABS)
- ✓ Up to 63 AXIO I/O modules can be mounted side by side
- ✓ Integrated UPS for targeted shutdown of the application
- ✓ Configuration via USB
- ✓ Web server - JAVA
- ✓ SD card up to 2 GB as optional plug-in parameterization memory
- ✓ 2 x Ethernet interfaces (integrated switch)
- ✓ Increased resistance to EMI
- ✓ Extended temperature range of -40°C ... 70°C (with derating)



### Key Commercial Data

Packing unit	1 pc
Custom tariff number	85371091
Country of origin	Germany

### Technical data

#### Note

# Controller - AXC 1050 XC - 2701295

## 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	125.9 mm
Depth	74 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C (Observe derating as per user manual)
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 sea level)
Shock	30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27
Vibration (operation)	5g

### Control system

Programming tool	PC WORX / PC WORX EXPRESS
Diagnostics tool	DIAG+
Configuration tool	Config+ Version 1.01 or later

### Mechanical design

Weight	244.5 g
Diagnostics display	No
Controller redundancy	No

### Data interfaces

Interface	Axioline F local bus
Connection method	Bus base module
Transmission speed	100 MBit/s
Interface	Parameterization/operation/diagnostics
Connection method	Micro USB type B
Transmission speed	max. 115,2 kBit/s
Interface	Ethernet
Connection method	RJ45 socket
Transmission speed	10/100 MBit/s

### PROFINET

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## Technical data

### PROFINET

Device function	PROFINET controller, PROFINET device
Specification	Version 2.2
Update rate	min. 4 ms

### Power supply

Typical current consumption	125 mA
Max. current consumption	160 mA
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 5 %
Power dissipation	max. 3 W

### Fieldbus function

Amount of process data	max. 8192 Bit (Axioline F local bus)
	max. 32768 Bit (internal Modbus Client)
	max. 4096 Bit (Axioline#F local bus (input))
	max. 4096 Bit (Axioline#F local bus (output))
Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63 (observe current consumption)

### General data

Processor	Altera Nios II 100 MHz
Diagnostics display	No

### Direct I/Os

Without analog input	yes
Without analog output	yes
Without pulse direction output	yes
Without counter input	yes

### IEC 61131 runtime system

Programming tool	PC WORX / PC WORX EXPRESS
Program memory	1 Mbyte (86 K instructions (IL))
Mass storage	2 Mbyte
Retentive mass storage	48 kByte (NVRAM)
Number of control tasks	8
Realtime clock	Yes

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## 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

### ETIM

ETIM 3.0	EC001045
ETIM 4.0	EC001435
ETIM 5.0	EC000236

### UNSPSC

UNSPSC 6.01	81111810
UNSPSC 7.0901	81111810
UNSPSC 11	81111810
UNSPSC 12.01	81111810
UNSPSC 13.2	81111810

## Approvals

### Approvals

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#### Approvals

RINA / GL / DNV / UL Listed / cUL Listed / BSH / BV / LR / GL-SW / ABS / NK / cULus Listed / GL

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#### Ex Approvals

ATEX

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#### Approvals submitted

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### Approval details

RINA
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## Approvals

GL

DNV

UL Listed 

cUL Listed 

BSH

BV

LR

GL-SW

ABS

NK

cULus Listed 

GL