

Controller - AXC 1050 - 2700988

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Axio control for direct open-loop control of Axioline I/Os. With 2 Ethernet interfaces and programming capabilities according to IEC 61131-3. Complete with connector connector and labeling field.

Article description

The AXC 1050 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.

Your advantages

- PROFINET controller (up to 16 devices) and/or PROFINET device
- Modbus/TCP-Client
- Numerous protocols supported such as: http, https, FTP, SNMP, SMTP, SQL, MySQL, DCP, etc.
- Free engineering with PC Worx Express (IEC 61131-3)
- 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 HTML5 and 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 -25°C ... +60°C



Key commercial data

package_quantity	1
GTIN	4046356731195

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	126.1 mm
Depth	74 mm

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Technical data

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C up to 2000 m above mean sea level
	-25 °C ... 55 °C up to 3000 m above mean sea level
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (according to DIN EN 61131-2, non-condensing, no ice formation)
Permissible humidity (storage/transport)	5 % ... 95 % (according to DIN EN 61131-2, non-condensing, no ice formation)
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	PC WORX
	PC WORX EXPRESS
Programming languages supported	Programming in acc. with IEC 61131-3
Diagnostics tool	DIAG+
Configuration tool	Config+ Version 1.01 or later

IEC 61131 runtime system

Engineering tool	PC WORX
	PC WORX EXPRESS
Program memory	2 Mbyte
Mass storage	2 Mbyte
Retentive mass storage	48 kByte (NVRAM)
Number of control tasks	8
Realtime clock	Yes

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))
	max. 32768 Bit (internal Modbus /TCP client)
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

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Data interfaces

Connection method	RJ45 socket
Transmission speed	10/100 Mbps (half or full duplex (automatic detection))
Interface	Service
Number	1
Connection method	Micro USB type B
Transmission speed	max. 115.2 kbps

PROFINET

Device function	PROFINET controller, PROFINET device
Specification	Version 2.3
Update rate	min. 32 ms (16 devices)
	min. 32 ms (8 devices)
	min. 16 ms (4 devices)
	min. 8 ms (2 devices)
	min. 4 ms (1st device)

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

Mechanical design

Weight	195 g
Note on weight specifications	with connector and bus base module
Diagnostics display	No
Controller redundancy	No
Safety function	No

General data

Processor	Altera Nios II 1x 100 MHz
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Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Interference emission	Noise emission test according to EN 61000-6-3 Class B
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
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

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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
ETIM 5.0	EC000236
ETIM 6.0	EC000236
ETIM 7.0	EC000236

UNSPSC

UNSPSC 6.01	81111810
UNSPSC 7.0901	81111810
UNSPSC 11	81111810
UNSPSC 12.01	81111810
UNSPSC 13.2	39122114

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Approvals

DNV GL / PRS / BV / LR / KR / NK / ABS / BSH / RINA / UL Listed / cUL Listed / EAC / cULus Listed /

Approval details

DNV GL #
PRS
BV
LR
KR
NK ClassNK
ABS
BSH
RINA
UL Listed
cUL Listed
EAC
cULus Listed

Accessories

Drivers and interfaces

AX OPC SERVER - 2985945



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Accessories

PC WORX UA SERVER-PLC 10 - 2402684



PC WORX UA SERVER-PLC 40 - 2402685



PC WORX UA SERVER-PLC 80 - 2402686



Parameterization memory

SD FLASH 512MB - 2988146



SD FLASH 512MB APPLIC A - 2701799



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Accessories

SD FLASH 512MB PDPI BASIC - 2701800



SD FLASH 512MB PDPI PRO - 2701801



SD FLASH 2GB - 2988162



SD FLASH 2GB APPLIC A - 2701190



SD FLASH 2GB AXC EASY SAFE PRO - 2403730



SD FLASH 2GB ATWISE - 2400088



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Accessories

SD FLASH 2GB APPLIC A ATWISE - 2400089



Programming cable

CAB-USB A/MICRO USB B/2,0M - 2701626



Programming

PC WORX DEMO - 2985725



PC WORX BASIC LIC - 2985275



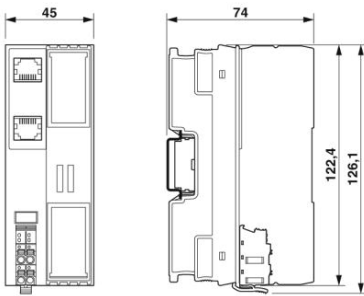
PC WORX PRO LIC - 2985385



Drawings

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Dimensional drawing



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