

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.

Product 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.

Why buy this product

- ✓ 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

Packing unit	1 STK
GTIN	 4 046356 731195
GTIN	4046356731195
Weight per Piece (excluding packing)	220.000 g

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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
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Dimensions

Width	45 mm
Height	125.9 mm
Depth	74 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
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
	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	1 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. 4096 Bit (Axioline F local bus (input))
	max. 4096 Bit (Axioline F local bus (output))

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Fieldbus function

	max. 32768 Bit (internal Modbus /TCP client)
Number of supported devices	max. 63
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	Parameterization/operation/diagnostics
Number	1
Connection method	Micro USB type B
Transmission speed	max. 115.2 kbps
Interface	Ethernet
Number	2
Connection method	RJ45 socket
Transmission speed	10/100 Mbps

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

Mechanical design

Weight	225.6 g
Diagnostics display	No
Controller redundancy	No

General data

Processor	Altera Nios II 100 MHz
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Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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Standards and Regulations

Developed in acc. with standard	Noise immunity test in accordance with EN 61000-6-2
Test result	Criterion B, 6 kV contact discharge, 8 kV air discharge
	Criterion A, Field intensity: 10 V/m
	Criterion B, 2 kV
	Criterion B, DC supply lines: ± 0.5 kV/ ± 0.5 kV (symmetrical/asymmetrical), fieldbus cable shield: ± 1 kV
	Criterion A; Test voltage 10 V
	Class B
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"

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

ETIM

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

UNSPSC

UNSPSC 6.01	81111810
UNSPSC 7.0901	81111810

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Classifications

UNSPSC

UNSPSC 11	81111810
UNSPSC 12.01	81111810
UNSPSC 13.2	39122114

Approvals


Approvals

Approvals

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

Ex Approvals

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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NK		http://www.classnk.or.jp/hp/en/	14A006
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EAC			EAC-Zulassung
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DNV GL		http://exchange.dnv.com/tari/	TAA00000DF
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BV		http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	36433/A2 BV
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Approvals

PRS		http://www.prs.pl/	TE/2106/880590/16
ABS		http://www.eagle.org/eagleExternalPortalWEB/	17-HG1669996-PDA
RINA		http://www.rina.org/en	ELE0078216XG
LR		http://www.lr.org/en	14-20019
BSH		http://www.bsh.de/de/index.jsp	840
KR		http://www.krs.co.kr/eng/main/main.aspx	HMB17372-AC002
cULus Listed			

Accessories

Accessories

Drivers and interfaces

Software - AX OPC SERVER - 2985945



AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls.

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Accessories

Software - PC WORX UA SERVER-PLC 10 - 2402684



OPC UA server for communication with a maximum of 10 modular small-scale controllers (AXC 1xxx or ILC 1x1)

Software - PC WORX UA SERVER-PLC 40 - 2402685



OPC UA server for communication with a maximum of 25 controllers

Software - PC WORX UA SERVER-PLC 80 - 2402686



OPC UA server for communication with a maximum of 200 controllers

Parameterization memory

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

Program / configuration memory - SD FLASH 512MB APPLIC A - 2701799



Program and configuration memory, plug-in, 512 MB with license key for functional block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

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Accessories

Memory - SD FLASH 512MB PDPI BASIC - 2701800



Program and configuration memory, plug-in, 512 MB with license key for licensing the PDPI - BASIC functional block for precise multi-channel controllers with self-optimization, e.g., for heating and cooling functions or hydraulic movements.

Memory - SD FLASH 512MB PDPI PRO - 2701801



Program and configuration memory, plug-in, 512 MB with license key for licensing the PDPI - PRO functional block for precise multi-channel controllers with self-optimization, additional functions: e.g., for setpoint processing, for heating and cooling functions.

Program / configuration memory - SD FLASH 2GB - 2988162



Program and configuration memory

Program / configuration memory - SD FLASH 2GB APPLIC A - 2701190



Program and configuration memory, plug-in, 2 Gbytes with license key for function block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

Program / configuration memory - SD FLASH 2GB AXC EASY SAFE PRO - 2403730



Program and configuration memory, plug-in, 2 GB, with license key and application program for easy web-based configuration and startup of a SafetyBridge solution including communication via Modbus/TCP, PROFINET, and e-mail.

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Accessories

Program / configuration memory - SD FLASH 2GB 61850 - 2400435



Program and configuration memory, plug-in, 2 GB with license key for IEC 61850 communication

Program / configuration memory - SD FLASH 2GB APPLIC A 61850 - 2400436



Program and configuration memory, plug-in, 2 GB with license key for IEC 61850 communication and for function block libraries, e.g., SNMP, SQL, wireless, motion functions, etc.

Program / configuration memory - SD FLASH 2GB ATWISE - 2400088



Program and configuration memory, plug-in, 2 GB with license key for webMI from atwise®

Program / configuration memory - SD FLASH 2GB APPLIC A ATWISE - 2400089



Program and configuration memory, plug-in, 2 GB with license key for function block libraries, e.g., for: webMI from atwise®, SNMP, SQL, wireless, motion functions, etc.

Programming

Software - PC WORX DEMO - 2985725



Software package for PC-based automation solutions, PC WORX DEMO, contains all 5 IEC languages, with MSFC compiler, max. 16 bytes input and output data

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Accessories

Software - PC WORX BASIC LIC - 2985275



Software package for PC-based automation solutions, PC WORX BASIC license, contains all 5 IEC languages, without MSFC compiler, max. 2048 byte input and output data, version-specific license key

Software - PC WORX PRO LIC - 2985385



Software package for PC-based automation solutions, PC WORX PRO license, contains all 5 IEC languages, with MSFC compiler, max 128 kB input and output data, version-specific license key

Programming cable

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



Connecting cable, for connecting the controller to a PC for PC Worx and LOGIC+, USB A to micro USB B, 2 m in length.

Spare parts

Bus connector - AXL BS BK - 2701422



Axioline F bus base module for housing type BK

Plug - AXL CN S/UL - 2701421



Axioline F short power connector (for e.g., AXL F BK ...)

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Accessories

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