

https://www.phoenixcontact.com/us/products/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.

Your advantages

- PROFINET controller for up to 16 devices and/or PROFINET device functionality
- · Memory extendable by up to 2 GB via plug-in SD card
- Free engineering with PC Worx Express (IEC 61131-3)
- · Modbus/TCP-Client
- · Integrated FTP and HTML5 web server
- Numerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.

Commercial data

Item number	2700988
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR10
Product key	DRAAEA
Catalog page	Page 44 (C-6-2019)
GTIN	4046356731195
Weight per piece (including packing)	234.1 g
Weight per piece (excluding packing)	244 g
Customs tariff number	85371091
Country of origin	DE



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Technical data

Notes

Note on application Utilization restriction EMC note EMC: class A product, see manufacturer's declaration in the download area froduct properties Product type Product family Axiocontrol Type modular Data management status Article revision 15 Insulation characteristics Protection class III (IEC 61140, EN 61140, VDE 0140-1) Display Diagnostics display no Displayesore Processor AlteraNios® II, 1x 100 MHz Retentive data storage 48 kByte (NVRAM) IEC 61131 runtime system Program memory 2 Mbyte Number of control tasks 8 Axioline 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)) Number of supported devices Number of local bus devices that can be connected PROFINET Device function PROFINET Device function PROFINET controller, PROFINET device Specification Version 2.3 ms (16 devices) min. 18 ms (4 devices)	Note on application	
EMC class A product, see manufacturer's declaration in the download area roduct properties Product type Controller Product family Axiocontrol Type modular Data management status Article revision 15 Insulation characteristics Protection class III (IEC 61140, EN 61140, VDE 0140-1) Display Diagnostics display no plagnostics display no System properties Processor AlteraNios® II, 1x 100 MHz Retentive data storage 48 kByte (NVRAM) IEC 61131 runtime system Program memory 2 Mbyte Data storage system 2 Mbyte Number of control tasks 8 Axioline Amount of process data max. 6192 bit (per station) max. 4096 bit (Axioline F local bus (output)) max. 4096 bit (Axioline F local bus (output)) PROFINET Device function PROFINET controller, PROFINET device Specification Versino 2.3 Update rate min. 32 ms (8 devices)	Note on application	Only for industrial use
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Article revision 15	Туре	modular
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Device function PROFINET controller, PROFINET device Specification Version 2.3 Update rate min. 32 ms (16 devices) min. 32 ms (8 devices)	PROFINET	
Specification Version 2.3 Update rate min. 32 ms (16 devices) min. 32 ms (8 devices)		PROFINET controller, PROFINET device
Update rate min. 32 ms (16 devices) min. 32 ms (8 devices)	Specification	
min. 32 ms (8 devices)		min. 32 ms (16 devices)
min. 16 ms (4 devices)		
		min. 16 ms (4 devices)



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	min. 8 ms (2 devices)
	min. 4 ms (1 device)
Conformance Class	A
Number of supported devices	max. 16 (at PROFINET controller)
Supported functions	MRP
	MRP
Device ID	0093 _{hex}
Vendor ID	00B0 _{hex}
Function	
Diagnostics display	no
Controller redundancy	yes
Note on controller redundancy	applicative system redundancy possible
Safety function	no
Functionality	
Programming languages supported	Instruction list (IL)
	Symbolic flowchart (SFC)
	Ladder diagram (LD)
	Function block diagram (FBD)
	Structured text (ST)
System requirements	
Engineering tool	PC Worx
	PC Worx Express
Configuration tool	Config+ Version 1.01 or later
Diagnostics tool	DIAG+
Runtime system	eCLR
Application interface	OPC
ectrical properties	
Maximum power dissipation for nominal condition	3.2 W
Real-time clock	
Realtime clock	yes
Description realtime clock	1.73 s/day = 20 ppm at 25 °C
Potentials	
Protective circuit	Surge protection of the supply voltage; electronic
	Polarity reversal protection of the supply voltage; electronic
Potentials: Communications power U_L feed-in (the supply of the	e Axioline F local bus U _{Bus} is generated from U _L)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 650 mA (with 2 A at U_{Bus} for the I/Os and U_{L} = 24 V)
	typ. 100 mA (without I/Os and U _L = 24 V)
Power consumption	max. 13.2 W (2.0 A on U _{Bus} , U _L = 24 V)



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Potentials: Axioline F	local bus supply	(U_{Bus})
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Supply voltage	5 V DC (via bus base module)
Power supply unit	2 A

Connection data

Connection method	Push-in connection
Axioline F connector	
Connection method	Push-in connection
Conductor cross section, rigid	0.2 mm² 1.5 mm²
Conductor cross section, flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16
Stripping length	8 mm

Interfaces

Web server	yes
Axioline F local bus	
Number of interfaces	1
Connection method	Bus base module
Transmission speed	100 Mbps

Ethernet

Bus system	RJ45
Number of interfaces	2
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps (half or full duplex (automatic detection))
Transmission physics	Ethernet in RJ45 twisted pair
No. of channels	2

Service

Bus system	USB
Number of interfaces	1
Connection method	Micro USB type B
Transmission speed	max. 115.2 kbps
No. of channels	1

Dimensions

45 74	
	122,4



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Width	45 mm
Height	126.1 mm
Depth	74 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).

Material specifications

Color	gray (RAL 7042)
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Environmental and real-life conditions

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)
Shock (operation)	10g (Bump endurance test according to DIN EN 60068-2-27)
Vibration (operation)	5g
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)

Approvals

UL, USA/Canada

Identification	cULus
Certificate	E238705

EMC data

Conformance with EMC directives	Immunity test in accordance with EN IEC 61000-6-2 Electrostatic discharge (ESD)IEC 61000-4-2 Criterion B, ±6 kV contact discharge, ±8 kV air discharge
	Immunity test in accordance with EN IEC 61000-6-2 Electromagnetic fieldsIEC 61000-4-3 Criterion A, Field intensity: 10 V/m
	Immunity test in accordance with EN IEC 61000-6-2 Fast transients (burst)IEC 61000-4-4 Criterion B, ±2 kV
	Immunity test in accordance with EN IEC 61000-6-2 Transient overvoltage (surge)IEC 61000-4-5 Criterion B; DC supply lines: ±0.5 kV/±1.0 kV (symmetrical/asymmetrical), fieldbus cable shielding: ±1.0 kV
	Immunity test in accordance with EN IEC 61000-6-2 Conducted interferenceIEC 61000-4-6 Criterion A, Test voltage 10 V
	Noise emission test in accordance with EN IEC 61000-6-3 Class B
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU



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Mounting

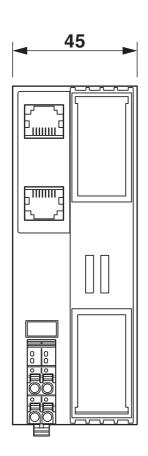
Mounting type	DIN rail mounting
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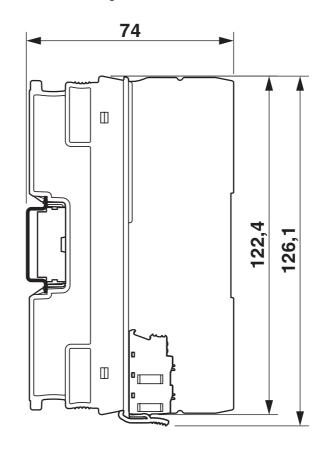
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Drawings



Dimensional drawing





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Approvals

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EAC

Approval ID: RU*DE*08.B.00529/19



DNV GL

Approval ID: TAA0000DF Rev.12



LR

Approval ID: LR2480202TA



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705

BSH

Approval ID: 840

ABS

Approval ID: 23-2449604-PDA

UAE-RoHS

Approval ID: 23-02-63241

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Classifications

ECLASS

	ECLASS-11.0	27242207	
	ECLASS-12.0	27242207	
	ECLASS-13.0	27242207	
ETIM			
	ETIM 9.0	EC000236	
UNSPSC			
	UNSPSC 21.0	32151700	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	1832c9e3-43ef-4e09-b03e-951014e0fc84

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