#### 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

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Product properties	
Туре	modular
Product type	Controller
Product family	Axiocontrol
Insulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Display	
Diagnostics display	No
System properties	
Processor	Altera Nios <sup>®</sup> 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. 8192 bit (per station)
	max. 4096 bit (Axioline F local bus (input))
	max. 4096 bit (Axioline F local bus (output))
Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 63 (observe current consumption)
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 (1 device)
Conformance Class	A
Number of supported devices	max. 16 (at PROFINET controller)
Supported functions	MRP

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Device ID	0000
Device ID	0093 <sub>hex</sub>
Vendor ID	00B0 <sub>hex</sub>
unction	
Diagnostics display	No
Controller redundancy	yes
Safety function	No
unctionality	
Programming languages supported	Instruction list (IL)
	Symbolic flowchart (SFC)
	Ladder diagram (LD)
	Function block diagram (FBD)
	Structured text (ST)
vetom requiremente	
ystem requirements Engineering tool	PC Worx
	PC Worx Express
Configuration tool	Config+ Version 1.01 or later
Diagnostics tool	DIAG+
Runtime system	
Runtime system         Application interface         ctrical properties	eCLR OPC
Application interface ctrical properties eal-time clock	OPC
Application interface ctrical properties eal-time clock Realtime clock	OPC Yes
Application interface ctrical properties eal-time clock	OPC
Application interface ctrical properties eal-time clock Realtime clock Description realtime clock	OPC Yes
Application interface ctrical properties eal-time clock Realtime clock Description realtime clock	OPC Yes
Application interface ctrical properties eal-time clock Realtime clock Description realtime clock otentials	OPC Yes 1.73 s/day = 20 ppm at 25 °C
Application interface ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit	OPC         Yes         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic
Application interface ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit	OPC         Yes         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic
Application interface Ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit	OPC Ves 1.73 s/day = 20 ppm at 25 °C Surge protection of the supply voltage; electronic Polarity reversal protection of the supply voltage; electronic Placety reversal protection of the supply voltage; electronic 24 V DC 24 V DC
Application interface ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit ctentials: Communications power UL feed-in (the supply voltage	OPC Ves 1.73 s/day = 20 ppm at 25 °C Surge protection of the supply voltage; electronic Polarity reversal protection of the supply voltage; electronic Placetore F local bus U <sub>Bus</sub> is generated from U <sub>L</sub> ) 24 V DC 24 V DC
Application interface  ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit  ctentials: Communications power U <sub>L</sub> feed-in (the supply voltage Supply voltage range	OPC         Ves         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         ply of the Axioline F local bus U <sub>Bus</sub> is generated from U <sub>L</sub> )         24 V DC         19.2 V DC 30 V DC (including all tolerances, including ripple)
Application interface  ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit  cotentials: Communications power U <sub>L</sub> feed-in (the supply voltage Supply voltage range	OPC         Yes         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         ply of the Axiolire F local bus U <sub>Bus</sub> is generated from U <sub>L</sub> )         24 V DC         19.2 V DC 30 V DC (including all tolerances, including ripple)         max. 650 mA (with 2 A at U <sub>Bus</sub> for the I/Os and U <sub>L</sub> = 24 V)
Application interface  ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit  ctentials: Communications power UL feed-in (the supply voltage Supply voltage range Current draw Power consumption	OPC         Yes         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         Ply of the Axioline F local bus U <sub>Bus</sub> is generated from U <sub>L</sub> )         24 V DC         19.2 V DC 30 V DC (including all tolerances, including ripple)         max. 650 mA (with 2 A at U <sub>Bus</sub> for the I/Os and U <sub>L</sub> = 24 V)         typ. 100 mA (without I/Os and U <sub>L</sub> = 24 V)
Application interface         ctrical properties         eal-time clock         Realtime clock         Description realtime clock         otentials         Protective circuit         Supply voltage         Supply voltage range         Current draw         Power consumption         otentials: Axioline F local bus supply (U <sub>Bus</sub> )	OPC         Yes         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         ply of the Axioline F local bus U <sub>Bus</sub> is generated from U <sub>L</sub> )         24 V DC         19.2 V DC 30 V DC (including all tolerances, including ripple)         max. 650 mA (with 2 A at U <sub>Bus</sub> for the I/Os and U <sub>L</sub> = 24 V)         typ. 100 mA (without I/Os and U <sub>L</sub> = 24 V)         max. 13.2 W (2.0 A on U <sub>Bus</sub> , U <sub>L</sub> = 24 V)
Application interface ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit Supply voltage Supply voltage range Current draw Power consumption otentials: Axioline F local bus supply (U <sub>Bus</sub> ) Supply voltage	OPC         Yes         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         Ply of the Axioline F local bus U <sub>Bus</sub> is generated from U <sub>L</sub> )         24 V DC         19.2 V DC 30 V DC (including all tolerances, including ripple)         max. 650 mA (with 2 A at U <sub>Bus</sub> for the I/Os and U <sub>L</sub> = 24 V)         typ. 100 mA (without I/Os and U <sub>L</sub> = 24 V)         max. 13.2 W (2.0 A on U <sub>Bus</sub> , U <sub>L</sub> = 24 V)         5 V DC (via bus base module)
Application interface   ctrical properties   eal-time clock   Realtime clock   Description realtime clock   otentials   Protective circuit   otentials: Communications power UL feed-in (the supply voltage   Supply voltage   Supply voltage range   Current draw   Power consumption   otentials: Axioline F local bus supply (U <sub>Bus</sub> )   Supply voltage   Power supply unit	OPC         Yes         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         ply of the Axioline F local bus U <sub>Bus</sub> is generated from U <sub>L</sub> )         24 V DC         19.2 V DC 30 V DC (including all tolerances, including ripple)         max. 650 mA (with 2 A at U <sub>Bus</sub> for the I/Os and U <sub>L</sub> = 24 V)         typ. 100 mA (without I/Os and U <sub>L</sub> = 24 V)         max. 13.2 W (2.0 A on U <sub>Bus</sub> , U <sub>L</sub> = 24 V)
Application interface ctrical properties eal-time clock Realtime clock Description realtime clock otentials Protective circuit Supply voltage Supply voltage range Current draw Power consumption otentials: Axioline F local bus supply (U <sub>Bus</sub> ) Supply voltage	OPC         Yes         1.73 s/day = 20 ppm at 25 °C         Surge protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         Polarity reversal protection of the supply voltage; electronic         Ply of the Axioline F local bus U <sub>Bus</sub> is generated from U <sub>L</sub> )         24 V DC         19.2 V DC 30 V DC (including all tolerances, including ripple)         max. 650 mA (with 2 A at U <sub>Bus</sub> for the I/Os and U <sub>L</sub> = 24 V)         typ. 100 mA (without I/Os and U <sub>L</sub> = 24 V)         max. 13.2 W (2.0 A on U <sub>Bus</sub> , U <sub>L</sub> = 24 V)         5 V DC (via bus base module)

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onnection method	Push-in connection
Conductor cross section, rigid	0.2 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section, flexible	0.2 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section AWG	24 16
Stripping length	8 mm
faces	
Web server	yes
oline F local bus	
Number of interfaces	1
Connection method	Bus base module
Transmission speed	100 Mbps
nernet	
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
1.5	

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

Dimensional drawing	
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

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Color	gray (RAL 7042)

### 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 Electrostati 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

#### Mounting

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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

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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