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Axiocontrol for the direct control of Axioline F I/Os. With 3 Ethernet interfaces for the additional connection of distributed I/Os via PROFINET, Modbus/TCP or TCP/IP. Programming according to IEC 61131-3. Includes connector plug and marking field.

# Product description

The AXC 3050 modular 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 and PROFINET device
- · Memory extendable by up to 2 GB via plug-in SD card
- 3 independent Ethernet interfaces
- · Modbus/TCP-Client
- · Integrated FTP and HTML5 web server
- Numerous protocols supported such as: http, https, FTP, SNTP, SNMP, SMTP, SQL, MySQL, DCP, etc.
- Integrated UPS for targeted shutdown of the application
- · Maritime approvals (GL, DNV, LR, BV, RINA, ABS)

### Commercial data

Item number	2700989
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR10
Product key	DRAAEC
Catalog page	Page 45 (C-6-2019)
GTIN	4046356731201
Weight per piece (including packing)	461.7 g
Weight per piece (excluding packing)	444 g
Customs tariff number	85371091
Country of origin	DE



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# Technical data

### Product properties

Product type	Controller
Product family	Axiocontrol
Туре	modular
Display	
Diagnostics display	No

# System properties

Processor	Intel® Atom® E660 1x 1.3 GHz
Retentive data storage	128 kByte
IEC 61131 runtime system	
D	4 NAI- 1-

Program memory	4 Mbyte
Data storage system	8 Mbyte
Number of control tasks	16

### 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. 1 ms (16 devices)
	min. 2 ms (32 participants)
	min. 4 ms (64 devices)
	min. 8 ms (32 participants)
	min. 16 ms (256 participants)
Conformance Class	В
Number of supported devices	max. 256 (at PROFINET controller)
Device ID	0095 <sub>hex</sub>
Vendor ID	00B0 <sub>hex</sub>

### Function

Diagnostics display	No
Controller redundancy	yes
Safety function	No

### Functionality

Instruction list (IL)

Connection method



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Push-in connection



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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

# Ethernet

Bus system	RJ45
Number of interfaces	3
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
No. of channels	3

### Axioline F local bus

Number of interfaces	1
Connection method	Bus base module
Transmission speed	100 Mbps

### Parameterization/operation/diagnostics

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

### Service

Bus system	USB
Number of interfaces	1
Connection method	USB type A, socket

### Dimensions

Width	100 mm
Height	125.9 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 sea level)
Ambient temperature (storage/transport)	-40 °C 85 °C
Ambient temperature (assembly)	-5 °C 60 °C
Permissible humidity (operation)	5 % 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	5 % 95 % (according to DIN EN 61131-2)
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)

### EMC data

Conformance with EMC directives	Immunity test in accordance with EN 61000-6-2/IEC 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 test in accordance with EN 61000-6-2/IEC 61000-6-2 Electromagnetic fieldsEN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Fast transients (burst)EN 61000-4-4/IEC 61000-4-4 Criterion B, ±2 kV
	Immunity test in accordance with EN 61000-6-2/IEC 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 test in accordance with EN 61000-6-2/IEC 61000-6-2 Conducted interferenceEN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V
	Noise emission test in accordance with EN 61000-6-3/IEC 61000-6-3 Radio interference properties EN 55022 Class A
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

### Mounting

Mounting type	DIN rail mounting

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