

## Controller - AXC 3050 - 2700989

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Axiococontrol 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.

### Why buy this product

- ✓ PROFINET controller and PROFINET device
- ✓ Modbus/TCP-Client
- ✓ Numerous protocols supported such as: http, https, FTP, SNMP, SMTP, SQL, MySQL, DCP, etc.
- ✓ Up to 63 AXIO I/O modules can be mounted side by side
- ✓ Integrated UPS for targeted shutdown of the application
- ✓ Programming and configuration via USB
- ✓ Web server HTML5 and JAVA
- ✓ SD card up to 2 GB as optional plug-in parameterization memory
- ✓ 3x Ethernet interfaces
- ✓ Increased resistance to EMI
- ✓ Extended temperature range of -25°C ... +60°C
- ✓ Integrated technology functions such as fast counters, incremental encoder inputs, and event tasks



### Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	460.000 g
Custom tariff number	85371099
Country of origin	Germany

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## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	100 mm
Height	125.9 mm
Depth	74 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (up to 2000 m above mean 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)
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 sea level)
Shock	30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27
Vibration (operation)	5g

### Control system

Programming tool	PC WORX
Diagnostics tool	DIAG+

### Mechanical design

Diagnostics display	No
Controller redundancy	No

### Data interfaces

Interface	Axioline F local bus
Number	1
Connection method	Bus base module
Transmission speed	100 MBit/s
Interface	Parameterization/operation/diagnostics
Number	1
Connection method	Micro USB type B
	USB type A, socket
Interface	Ethernet
Number	3
Connection method	RJ45 socket

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## Technical data

### Data interfaces

Transmission speed	10/100 MBit/s
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### Power supply

Typical current consumption	typ. 408 mA (without I/Os and $U_L = 24\text{ V}$ )
Max. current consumption	max. 976 mA (with 2 A at $U_{Bus}$ for the I/Os and $U_L = 24\text{ V}$ )
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Residual ripple	$\pm 5\%$
Power dissipation	max. 9.8 W

### Fieldbus function

Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63 (observe current consumption)

### General data

Processor	Intel® Atom™ E660 1.3 GHz
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### Direct I/Os

Without analog input	yes
Without analog output	yes
Without pulse direction output	yes
Without counter input	No
Input name	Counter input for 24 V signals
Number of inputs	max. 2 (via any digital inputs of the Axioline F modules)
Input frequency	max. 100 kHz (with AXL F DI16/1 HS 1H module)

### IEC 61131 runtime system

Programming tool	PC WORX
Program memory	4 Mbyte
Mass storage	8 Mbyte
Retentive mass storage	128 kByte
Number of control tasks	16
Realtime clock	Yes

### Standards and Regulations

Shock	30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27
Vibration (storage/transport)	5g
Vibration (operation)	5g
Shock (operation)	10g (Bump endurance test according to EN 60068-2-29)

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## 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

### UNSPSC

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

## Approvals

### Approvals

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#### Approvals

EAC / UL Listed / cUL Listed / cULus Listed

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#### Ex Approvals


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### Approval details


EAC EAC-Zulassung
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### Approvals

UL Listed  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 238705

cUL Listed  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 238705

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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#### Parameterization memory

#### Memory - SD FLASH 512MB - 2988146



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

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#### 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 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.

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#### 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.

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#### Program / configuration memory - SD FLASH 2GB - 2988162



Program and configuration memory

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#### 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.

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### 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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## Controller - AXC 3050 - 2700989

### 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

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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

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### 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.

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### Spare parts

Bus connector - AXC BS - 2701582



Axiocontrol bus base module for AXC 3xxx