AXC F 2152 STARTERKIT - Starter kit

1046568

https://www.phoenixcontact.com/us/products/1046568

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AXC F 2152 starter kit including PLCnext Control AXC F 2152, voltage switch, digital input and output module, analog input and output module, potentiometer, switch module, PROFICLOUD license, as well as a power supply unit, patch cable, country-specific adapter plugs, and documentation.

Product description

Would you like to try out the operating principle, handling, and high performance of PLCnext Technology in a small-scale application first? Phoenix Contact can provide you with a starter kit for this, complete with pre-installed components for your test applications.
Upon ordering the starter kit, you will receive one year's exclusive free access to the Phoenix Contact PROFICLOUD. This will give you an opportunity to discover all the benefits of professional cloud solutions, in addition to the new open control platform.

Your advantages

- Quick application development: several developers work independently in different programming languages
- Convenient engineering with your favorite programming tools
- PLC-typical real-time performance and data consistency, also for high-level languages and model-based code
- Limitless adaptation capabilities, thanks to the quick and easy integration of open-source software, apps, and future technologies
- Intelligent networking, thanks to cloud connection and the integration of current and future communication standards

Commercial data

Item number	1046568
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR09
Product key	DRADAC
GTIN	4055626641782
Weight per piece (including packing)	2,480 g
Weight per piece (excluding packing)	2,087 g
Customs tariff number	85371091
Country of origin	DE

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Set consists of

AXC F 2152 - Controller

2404267

https://www.phoenixcontact.com/us/products/2404267



Controller (SPS), PLCnext Control; Programming: High-level language and IEC 61131-3; Operating system: Yocto/Linux® (real-time); Programming tool: PLCnext Engineer, Eclipse®, Visual Studio®, MATLAB®/ Simulink®; Processor: Arm® Cortex®-A9, 2x 800 MHz; IoT connection: PROFICLOUD and every cloud via cloud connectors; Development process certified in accordance with IEC 62443-4-1, Product certified in accordance with IEC 62443-4-2 (Certification conditions see user documentation); The product is being prepared for compliance with the Cyber Resilience Act (CRA).

AXL F DI8/1 DO8/1 1H - Digital module

2701916

https://www.phoenixcontact.com/us/products/2701916



Axioline F, Digital I/O module, Digital inputs: 8, 24 V DC, connection technology: 1-conductor, Digital outputs: 8, 24 V DC, 500 mA, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors; The product is being prepared for compliance with the Cyber Resilience Act (CRA).

AXL F AI2 AO2 1H - Analog module

2702072

https://www.phoenixcontact.com/us/products/2702072



Axioline F, Analog I/O module, Analog inputs: 2, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, Analog outputs: 2, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors; The product is being prepared for compliance with the Cyber Resilience Act (CRA).

CLOUD CREDIT-1 - License

2402989

https://www.phoenixcontact.com/us/products/2402989



Runtime license for using devices in the PROFICLOUD, credit: 8760 units

FL CAT5 PATCH 2,0 - Patch cable

2832289

https://www.phoenixcontact.com/us/products/2832289



Patch cable, CAT5, assembled, 2 m

UM 45-IB-DI/SIM8 - Termination board

2962997

https://www.phoenixcontact.com/us/products/2962997



VARIOFACE switch module, with COMBICON connector, for simulation, for 8 signals, for mounting DIN rail NS 35

Technical data

Product properties

Product type	Starter kit
Product family	Axioline
Type	Axioline

System properties

Operating system	Yocto/Linux® (real-time)
Processor	Arm®Cortex®-A9, 2x 800 MHz
Flash memory	512 Mbyte (internal flash memory)
RAM	512 Mbyte DDR3 SDRAM

IEC 61131 runtime system

Program memory	8 Mbyte
Retentive data storage	48 kByte (NVRAM)
Data storage system	16 Mbyte
Cycle Time	1 ms (for cyclical task)
Number of data blocks	depending on data storage
Number of control tasks	32 (16 per processor core)

System limits Controller

Amount of process data (Axioline input/output data)	max. 8192 bit (per station)
Amount of process data (Axioline input data)	max. 4096 bit (Axioline F local bus (input))
Amount of process data (Axioline output data)	max. 4096 bit (Axioline F local bus (output))
Number of supported devices (Axioline)	max. 63 (per station)
Number of local bus devices that can be connected (Axioline)	max. 63 (observe current consumption)

PROFINET

Device function	PROFINET controller, PROFINET device
Specification	Version 2.3
Conformance Class	A
Supported functions (PROFINET-Controller)	MRP
Supported functions (PROFINET-Device)	MRP
Update rate	min. 1 ms (4 devices)
	min. 16 ms (64 devices)
Update rate min/max (Supports (device))	1 ms ... 250 ms
Process data width (PROFINET-Device)	64 Byte ... 512 Byte
Number of supported devices (PROFINET-Controller)	max. 64 (at PROFINET controller)
Number of slots	1
Device ID	0142_{hex}
Vendor ID	$00B0_{hex}$

Functionality

Programming tool	PLCnext Engineer

	Eclipse®
Programming languages supported	Programming in acc. with IEC 61131-3
	C++
	C#
	Java
	Manufacturer-specific

System requirements

Application interface	OPC UA®

Electrical properties

Real-time clock

Description real-time clock	1.73 s/day = 20 ppm at 25 °C
Power reserve	240 h

Potentials

Protective circuit	Surge protection of the supply voltage; electronic
	Polarity reversal protection of the supply voltage; electronic

Interfaces

Web server	yes

Memory card:

Number	1 (SD card from Phoenix Contact (for external flash memory, see accessories))

Mounting

Mounting type	DIN rail mounting

Classifications

ECLASS

ECLASS-13.0	27242219

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)

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