



SIMATIC Robot Integrator & Library

Your shortcut to Robotics



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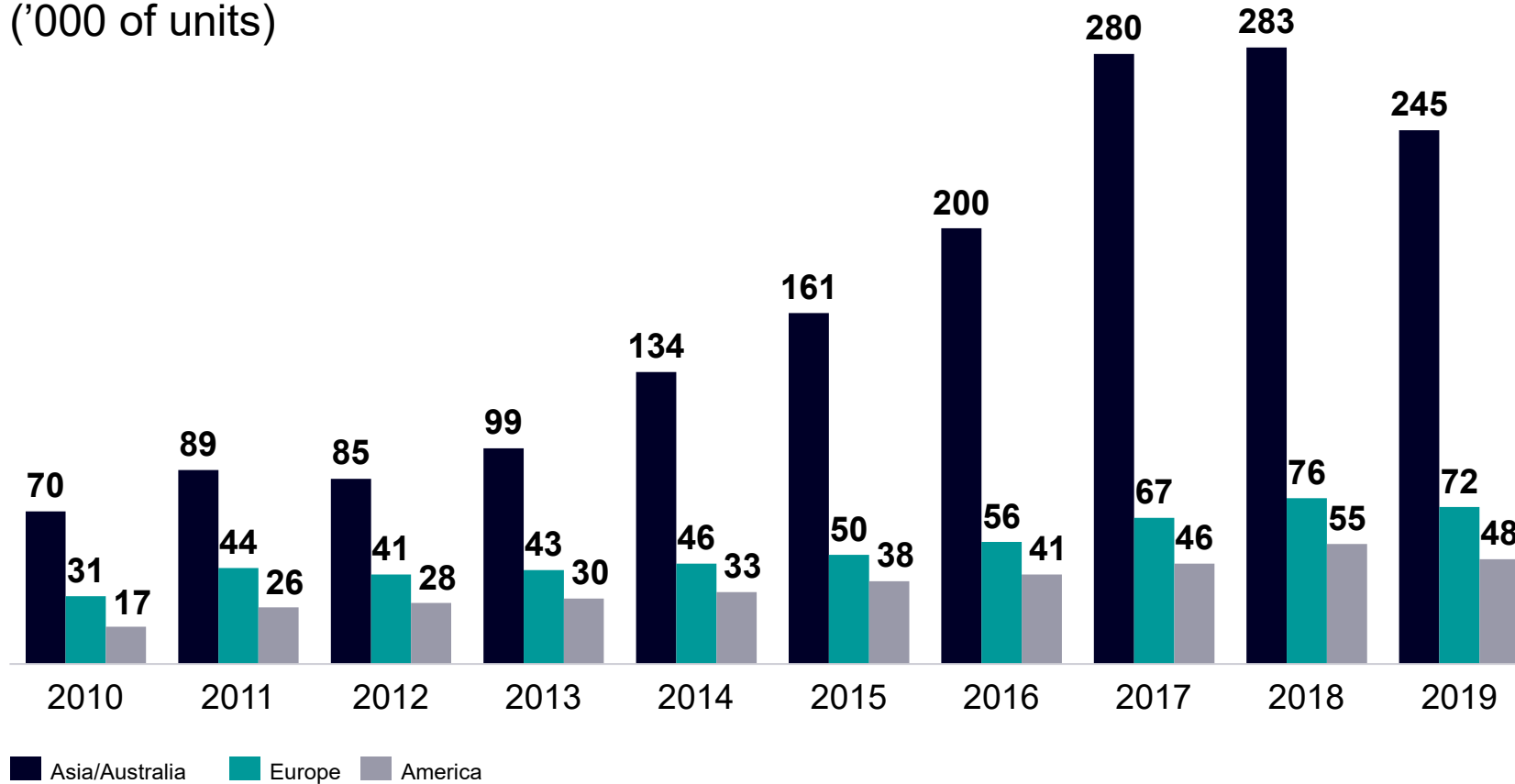
SIEMENS

Market trend

Globally increasing sales of industrial robots

Annual installations of industrial robots

('000 of units)



■ Asia/Australia ■ Europe ■ America

Müller, Christopher; Kutzbach, Nina: World Robotics 2019 – Industrial Robots, IFR Statistical Department, VDMA Services GmbH, Frankfurt am Main, Germany, 2020.



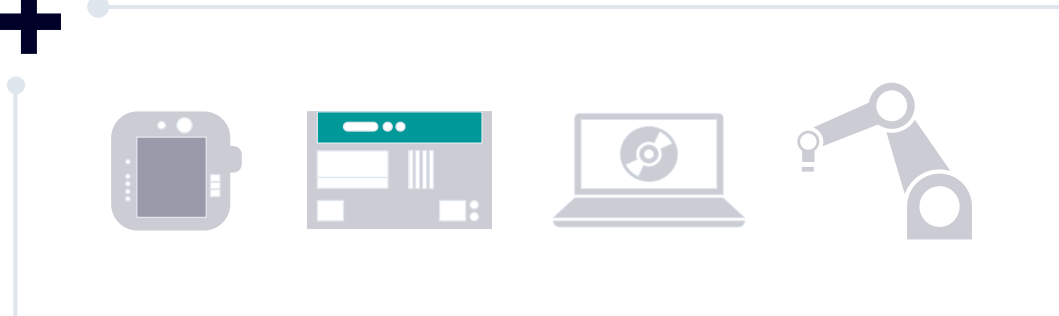
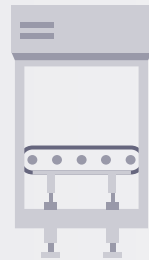
Reasons for the growing robot market

- Increasing degree of automation
- Technical innovations
- Falling prices
- More compact designs
- Use in a variety of industries
- Boost in worldwide emerging markets
- Robots as integral part of the digital factory

The challenge

Increasing complexity in machine automation

User



Challenges

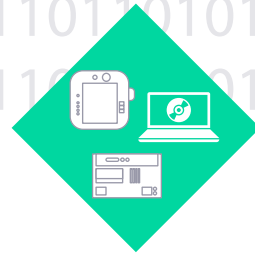
- Various controllers for machine automation and robots
- Additional engineering tools
- Additional HMI devices
- High engineering and commissioning effort

The challenge

Increasing complexity due to robot manufacturer variance



User

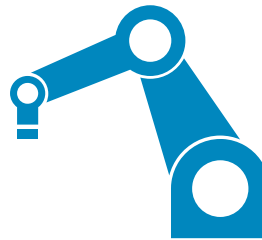
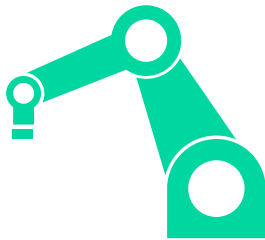
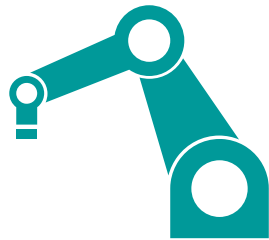
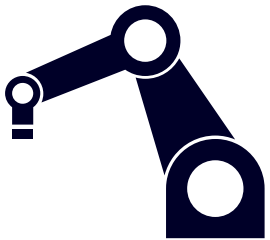


Manufacturer A

Manufacturer B

Manufacturer C

Manufacturer ...

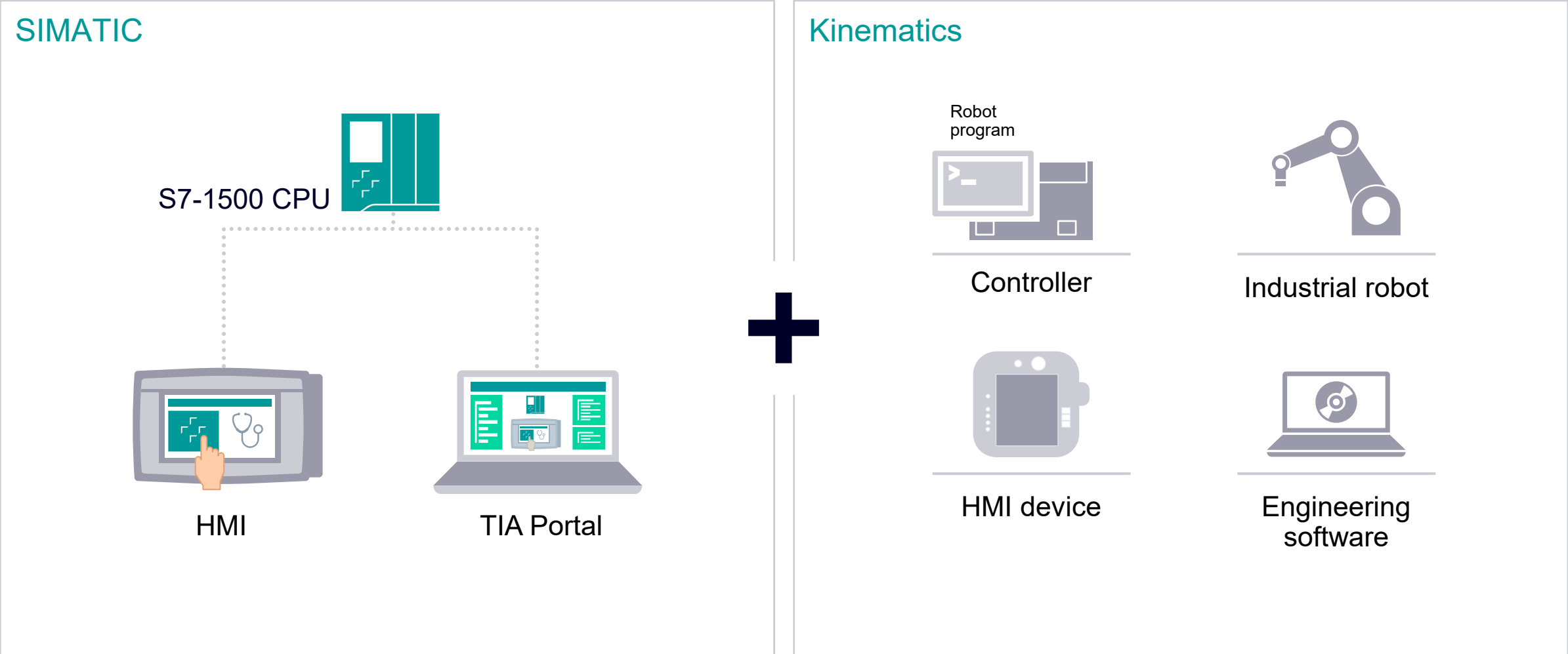


Challenges

- Handling of robot manufacturer-specific SW and HW
- Robot manufacturer-specific programming know-how required
- Program must be newly created for every robot manufacturer
- Manufacturer-specific interface definition between robot and machine
- High complexity for service and maintenance

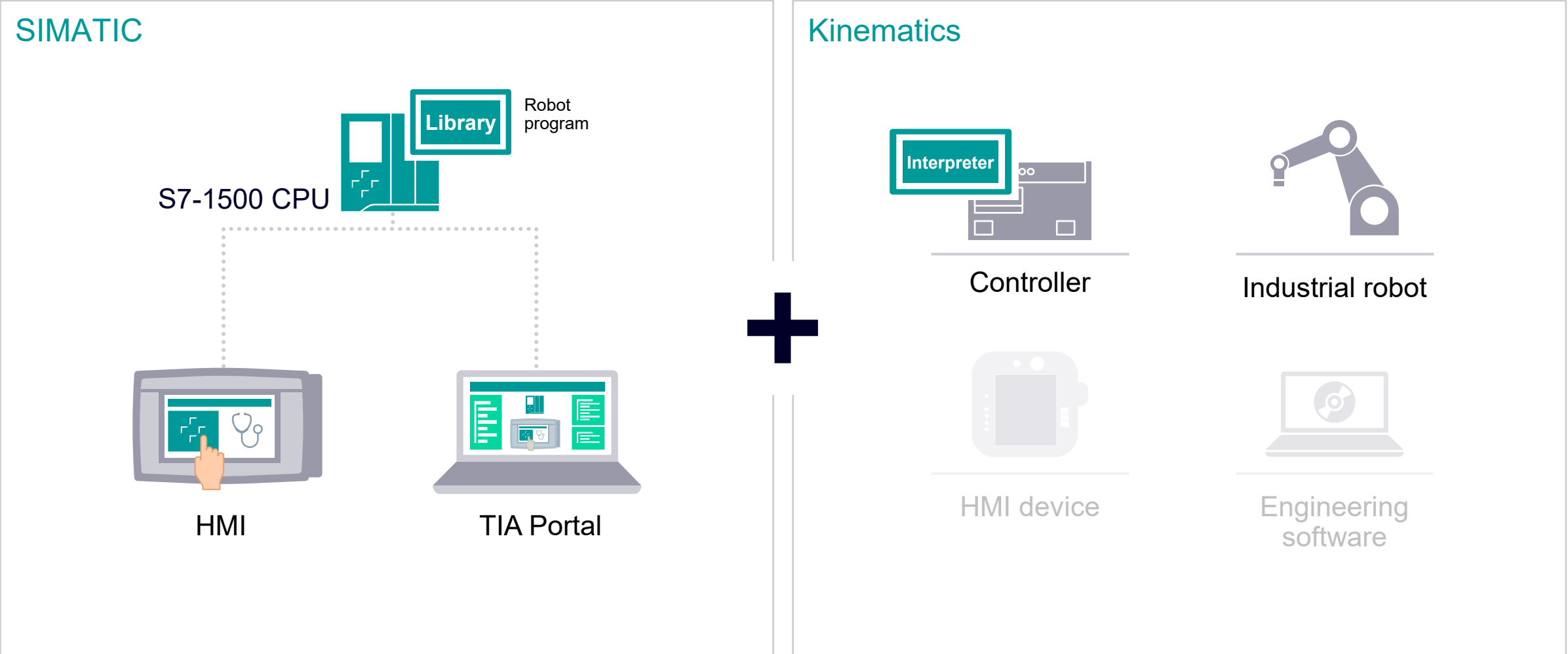
The situation today

Robot control via I/O commands



The innovative solution

Robot programming in TIA Portal



Robot programming in SIMATIC in the past

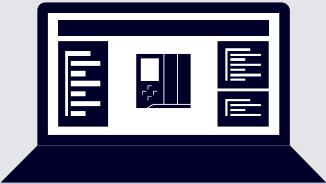
Offer with robot manufacturer libraries

	YASKAWA	KUKA	DENSO Crafting the Core	STÄUBLI
FAQ		 Link	 Link	 Link
Programming guide + example	 Link	 Link	 Link	 Link
Commissioning support				

Consulting and support for the libraries is the responsibility of the robot manufacturers

SIMATIC Robot Library

One language for all robot manufacturers



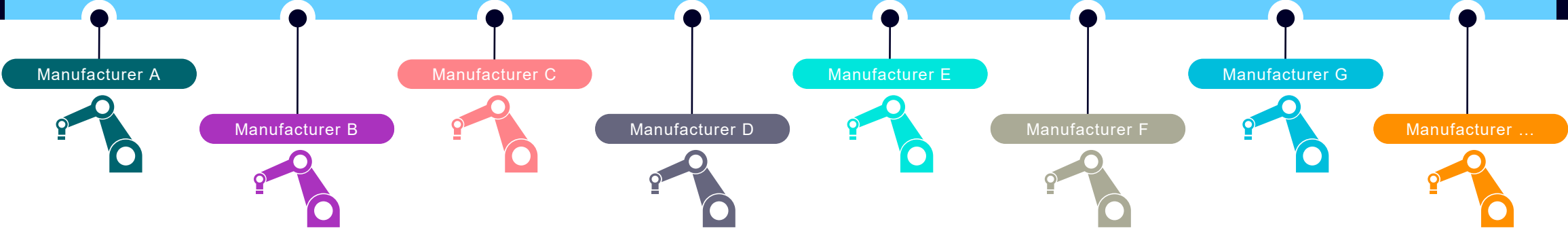
TIA Portal & SIMATIC S7



SIMATIC Robot Library

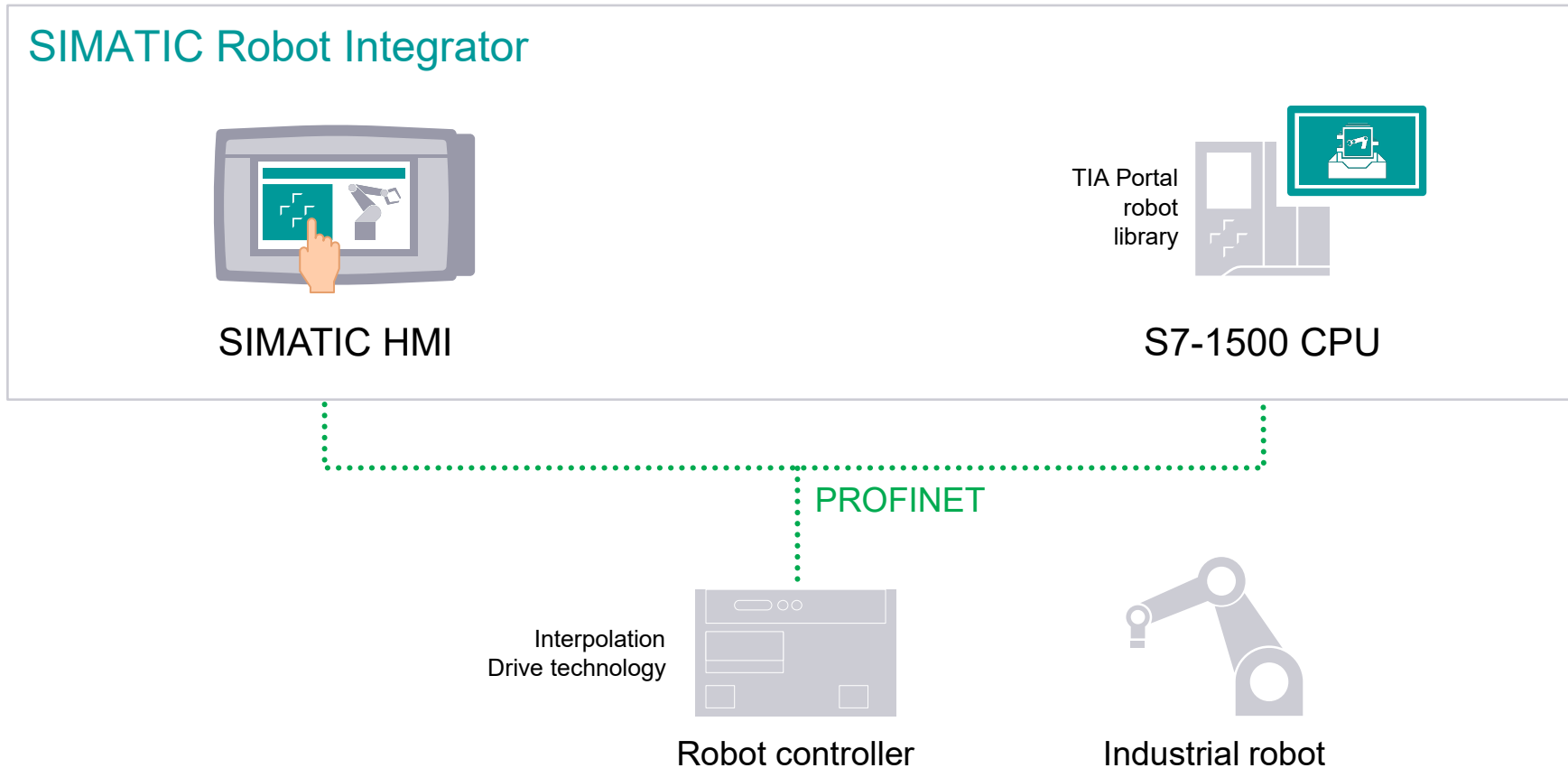


Standard Robot Command Interface



SIMATIC Robot Integrator

At a glance



No robot-specific programming experience required!



Functions

- Jog mode
- Teach-in of path points
- Creation of path planning (online)
- Validate of path planning
- Change configuration data (online)



Benefits

- ✓ Robot programming in TIA Portal
- ✓ Uniform operating concept with SIMATIC HMI – across robot manufacturers

SIMATIC Robot Integrator

Robot programming in the TIA Portal



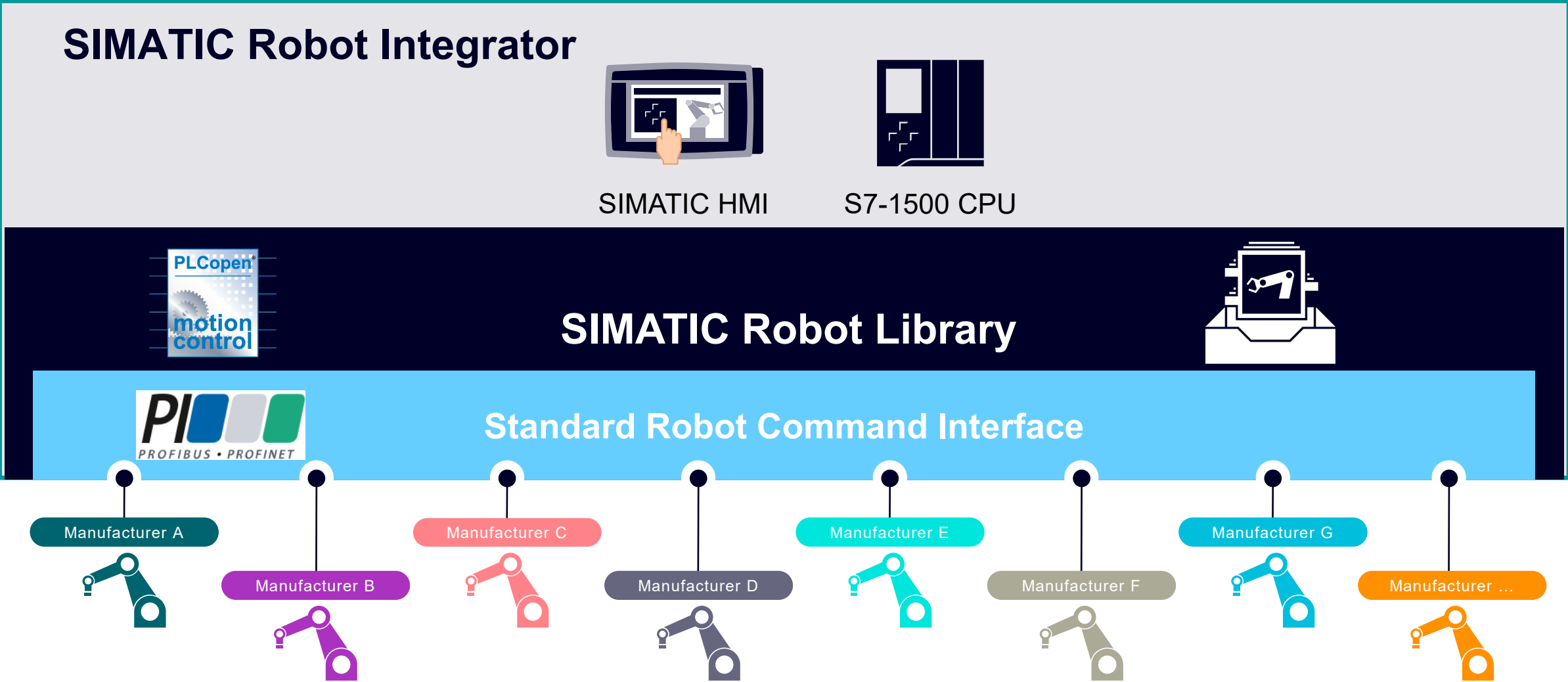
Functions

- No programming in the engineering tool of the robot manufacturer
- "Ready-to-use" TIA Portal program example for the operation of robots
- HMI faceplates independent of the robot manufacturer
- Complete creation of the robot trajectory possible with the SIMATIC HMI

Uniform faceplates for robots from different manufacturers















SIMATIC Robot Integrator with SIMATIC Robot Library

At a glance



SIMATIC Robot Integrator

Offer with SIMATIC Robot Library

		Actual Partners							
		ABB	COMAU	EPSON EXCEED YOUR VISION	FANUC	JAKA 节卡	Kawasaki Robotics	KUKA	NACHI
Interpreter	Interpreter available	 Release 2022				 Release 2022	 Release 2021	 Release 2022	
Interpreter	Interpreter available		 Release 2021		 Release 2021		 Release 2022		

The interpreter is provided by the robot manufacturers



Available



In work



In planning

SIMATIC Robot Integrator

Your benefit

Reduce effort



Increase efficiency



Reduce failure costs



Reduce complexity



Optimize diagnosis



Uniform operation and engineering environment for PLC and robots

Uniform faceplates for robots from different manufacturers

Manufacturer-independent robot programming reduces errors during program transfer

Standardization in the use of robots reduces the complexity of service and maintenance

Use of all TIA diagnostic options also in the robot cell

SIMATIC Robot Library V1.0

Requirements and licensing



TIA Portal
>= V16

- TIA Portal



SIMATIC S7 1500
>= FW V2.8

- S7 1500
- S7 1500F
- S7 1500T
- S7 1500TF



Robot interpreter

- Robot vendor specific software
- Robot vendor must support SRL

Future versions

- SIMATIC S7 1200
- Open controller

SIMATIC Robot Library

Runtime License available in Industry Mall



Home > Suche nach: 6ES7823-0RE00-3AA0

6ES7823-0RE00-3AA0 Erweiterte Suche Hilfe

Artikelnummer/-beschreibung (1) | Produktkategorien (0) | Dokumente & Downloads (0)

Verfügbarkeit prüfen Datengenerator (CAx) Vergleichen Mehr... Projektkennzeichen

Artikelnummer / Artikelbeschreibung	Einzelpreis / Ihr Preis	
<input checked="" type="checkbox"/> <div style="border: 1px solid gray; padding: 2px; width: fit-content;">Keine Abbildung verfügbar</div> <p>> 6ES7823-0RE00-3AA0 SIMATIC Robot Library V1.0, Single Runtime License Download enthält Lizenzzertifikat für 1 Roboterarm als PDF, zum Download, Klasse A; ablaufähig auf allen S7-1500 Steuerungen ab Firmware V2.8, benötigt TIA Portal ab V16 ***** Warenempfänger-E-Mail Adresse zur Auslieferung erforderlich ***** Interpreter vom jeweiligen Roboterhersteller auf der Robotersteuerung erforderlich</p> <p>Preisdetails Details zur Verfügbarkeit</p> <p><small>© Diese Artikelnummer kann nur als Download bezogen werden. Dieser Artikel ist derzeit noch nicht lieferbar, kann aber bestellt werden. Die Auslieferung erfolgt, sobald er verfügbar ist. Das voraussichtliche Lieferdatum entnehmen Sie bitte der Bestellbestätigung. Benötigen Sie Unterstützung, so wenden Sie sich bitte an Ihren Siemens-Ansprechpartner.</small></p>	490,00 EUR	1 Stück <input checked="" type="checkbox"/>

Seite 1 von 1 Seiten K | < | 1 | > | >>

*empfohlener Listenpreis



MALL; LP: 490€



Totally Integrated Automation
PORTAL

MUSTER

SIMATIC Robot Library V1.0
 Single Runtime License
 Certificate of license for 1 robot arm

Type of Software / Softwaretyp: Application Software
 Type of License / Lizenztyp: Single License
 Type of Use / Art der Nutzung: Instance / Instanz
 No. / Anzahl: 1
 Software Class / Softwareklasse: A
 Reference Hardware / Zielhardware:
 SIMATIC S7-1500(F) - FW version V2.8 or higher

Systems Conditions / Systemanforderung:
 TIA Portal V16 or higher

Remark / Anmerkung:
 Requires interpreter counterpart from respective robot manufacturer
 See README FOR ACTIVATION; SEE MANUAL FOR GENERAL DETAILS
 Order No. / Bestell-Nr.: 6ES7823-0RE00-3AA0
 License No. / Lizenz-Nr.: ergänzt Lieferstelle
 Dispatch note No. / Lieferschein-Nr.: ergänzt Lieferstelle

Software © Siemens AG, DE-76187 Karlsruhe, Made in Germany

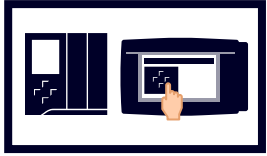
CERTIFICATE OF LICENSE

LICENSE (one license per robot arm)

Note: Limited sales and delivery release!!!

SIMATIC Robot Integrator + Library

Offering and Pricing Strategy



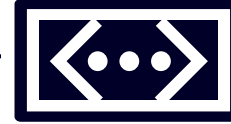
SIMATIC Robot Integrator

- Free of charge



SIMATIC Robot Library V1.0

- Trial: free of charge for 8h
- Single Runtime license: 490€ (LP)
- One license per robot arm



Digital twin of robot interpreter

- Free of charge



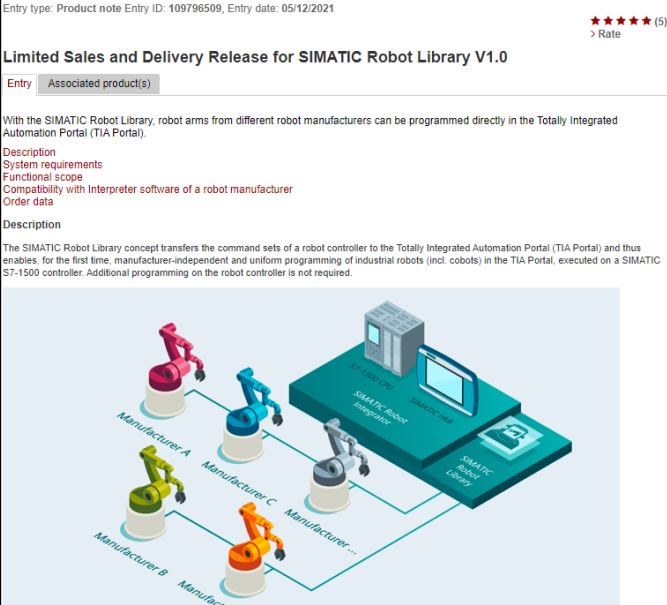
MCD Model

- Generic robot arm
- Free of charge

Testing the SIMATIC Robot Library does not require any robotics specific tools

SIMATIC Robot Library

Library will be delivered through a Service Request



Entry type: Product note Entry ID: 109796509, Entry date: 05/12/2021

★★★★★ (5)
> Rate

Limited Sales and Delivery Release for SIMATIC Robot Library V1.0

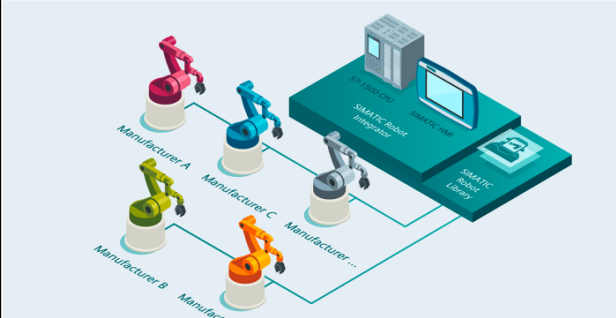
Entry Associated product(s)

With the SIMATIC Robot Library, robot arms from different robot manufacturers can be programmed directly in the Totally Integrated Automation Portal (TIA Portal).

Description
System requirements
Functional scope
Compatibility with interpreter software of a robot manufacturer
Order data

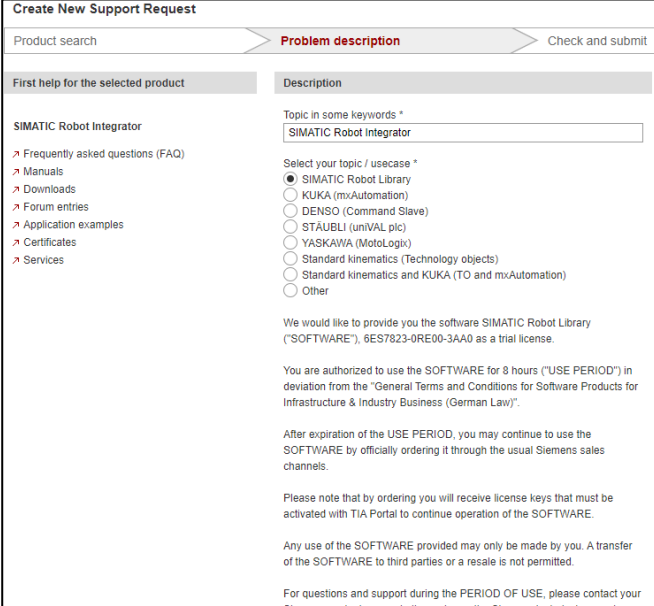
Description

The SIMATIC Robot Library concept transfers the command sets of a robot controller to the Totally Integrated Automation Portal (TIA Portal) and thus enables, for the first time, manufacturer-independent and uniform programming of industrial robots (incl. robots) in the TIA Portal, executed on a SIMATIC ST-1500 controller. Additional programming on the robot controller is not required.



Industry Online Support (SIOS)

Industry
Online
Support



Create New Support Request

Product search Problem description Check and submit

First help for the selected product Description

SIMATIC Robot Integrator

Topic in some keywords *
SIMATIC Robot Integrator

Select your topic / usecase *

SIMATIC Robot Library
 KUKA (mxAutomation)
 DENSO (Command Slave)
 STAUBLI (unVAL pic)
 YASKAWA (MotoLogix)
 Standard kinematics (Technology objects)
 Standard kinematics and KUKA (TO and mxAutomation)
 Other

We would like to provide you the software SIMATIC Robot Library ("SOFTWARE"), 6ES7823-0RED0-3AA0 as a trial license.

You are authorized to use the SOFTWARE for 8 hours ("USE PERIOD") in deviation from the "General Terms and Conditions for Software Products for Infrastructure & Industry Business (German Law)".

After expiration of the USE PERIOD, you may continue to use the SOFTWARE by officially ordering it through the usual Siemens sales channels.


Please note that by ordering you will receive license keys that must be activated with TIA Portal to continue operation of the SOFTWARE.

Any use of the SOFTWARE provided may only be made by you. A transfer of the SOFTWARE to third parties or a resale is not permitted.

For questions and support during the PERIOD OF USE, please contact your...

Service Request (Hotline)

Delivery
via
email



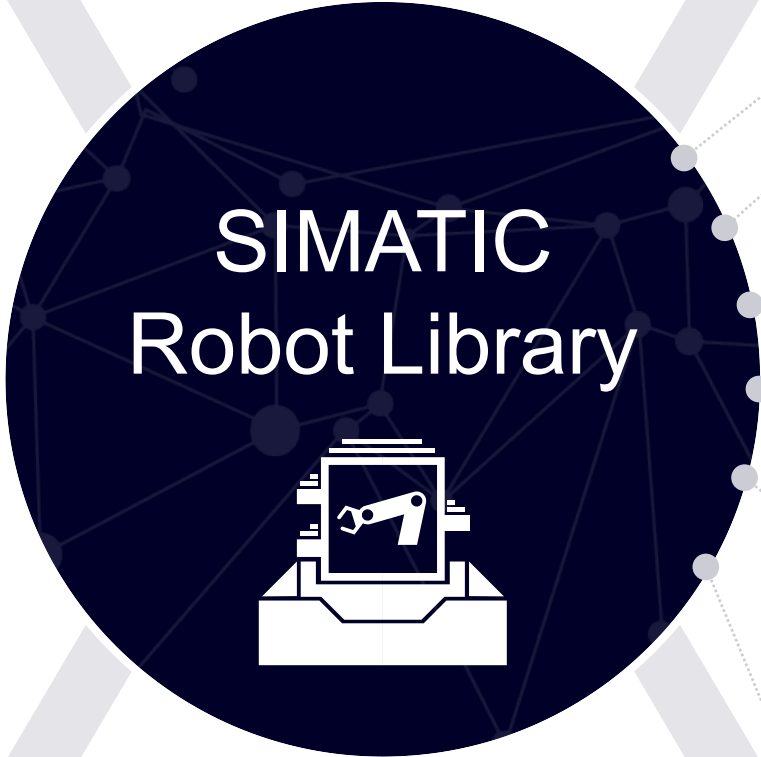
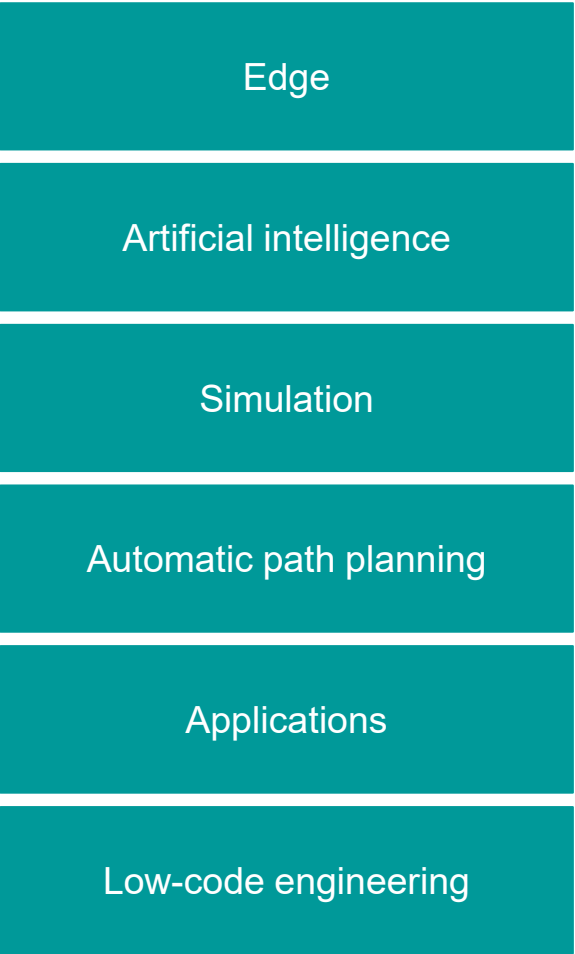
- SIMATIC Robot Integrator
- SIMATIC Robot Library
- Digital Twin robot interpreter
- Manuals
- MCD model (robot arm)

Delivery

[SIOS Link](#)

SIMATIC Robot Library

Bridge to the world of robotics



I Thank you for your attention!

For further information and support, please contact:

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