

# 西门子PLC模块北京授权一级代理商

产品名称	西门子PLC模块北京授权一级代理商
公司名称	浔之漫智控技术(上海)有限公司-西门子总代理商
价格	.00/台
规格参数	品牌:西门子 型号:PLC模块 产地:德国
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## 产品详情

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### 概述

SINAMICS DriveSim Basic provides easy-to-use models for PROFIdrive-enabled SINAMICS converters, so you can create a digital twin of your drive.

The models are validated and tested against real SINAMICS converters and are available in the form of a standardized FMU (Functional Mockup Unit). Therefore, they are compatible with various standard time-based simulation programs such as SIMIT, Simcenter Amesim, ANSYS Twin Builder, MATLAB Simulink or Hopsan.

SINAMICS DriveSim Basic is another element in your engineering toolbox. Together with other virtual Siemens solutions, e.g. SIMATIC S7-PLCSIM Advanced or NX Mechatronics Concept Designer, a consistent model-based development process can be implemented.

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优势西门子S7-1500系列在各个方面的\*\*设计，为用户提供了\*为完善的自动化控制系统解决方案。它的扩展信号模块功能强大，设计理念，帮助用户搭建经济性好，响应\*，运行稳定的控制系统。相对于S7-300/400，西门子S7-1500采用新型的背板总线技术，采用高波特率和高传输协议，使其信号处理速度；S7-1500所有CPU集成1-3个PROFINET接口，可实现低成本\*组态现场级通信和公司网络通信，而S7-300/400PLC只有个别型号CPU才集成有PROFINET接口。西门子S7-1500系列是西门子PLC系列的\*\*产品，它在性价比，运行能力，通讯功能，扩展性能，响应速度，显示功能等方面，相比西门子S7-300系列，西门子S7-400系列都有了大幅提升，从而为用户在自动化控制系统的配置中提供了\*加的解决方案。西门子S7-1500系列在各个方面的\*\*设计，为用户提供了\*为完善的自动化控制系统解决方案，用户通过合理的配置西门子S7-1500系列的故障模块，可以使得控制系统发挥\*好的作用，在性方面得到提升，为用户在调试和设备维

护过程中提高工作效率，为企业节约成本，带来\*大的效益。西门子S7-1500的外观设计\*人性化，选用时\*容易被工程现场人员所接受。S7-1500模块大小比S7-300稍大，机架类似于S7-300，前连接器安装时具有接线位置，并提供的电源元件和屏蔽支架及线卡，使接线\*方便，可靠性\*高;尤其让工程人员心动的是CPU上配置有LED显示屏，可方便显示CPU状态和故障信息等。我们公司凭着求真务实的工作作风、\*\*发展的理想信念，博击于商海大潮之中，从无到有，从小到大，一步一个脚印，在市场风雨的洗礼与磨砺中茁壮成长。西门子PLC模块北京授权一级代理商

Speed up time-to-market for OEMs

Test validated SINAMICS models under real conditions already at the design or planning stage and make needed adjustments

Identify issues and improvement capabilities early in the design stage and reduce testing effort to save time and cost

Download is free of charge. The ideal entry point for drive system simulation

Valid for the most commonly used Siemens drives

Advantages of SINAMICS DriveSim Basic compared to SIMIT PROFIdrive blocks:

Increased level of detail due to speed controller, current setpoint filters and internal load model

Identical parameter values and meaning as in the real SINAMICS device

Direct reference to SINAMICS documentation

Validated against the real SINAMICS drive

No wiring effort to represent functional configurations

Significant reduction of SIMIT simulation tags (even more is possible if unused in-/ outputs are deselected within the Component Type Editor (CTE))

Enables simulation of an (internal) two-mass oscillator as application with realistic SINAMICS parameter settings, besides the known limitations by the minimum sample time in SIMIT

Compatible with every FMU Co-Simulation 2.0 compatible simulation too

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应用

With SINAMICS DriveSim Basic, you can implement three major use cases:

Providing load characteristics for drive selection and dimensioning

Virtual commission your PLC already in the design phase

Test and improve interaction between PLC, drives and application virtually

### Use case 1: Providing load profiles for drive sizing

If you are designing a machine, you want to make sure that you select the SINAMICS converter and SIMOTICS motor most suitable for your drive application. As SINAMICS DriveSim Basic is control-unit-agnostic and thus represents a generic drive, you can parametrize it according to the functionality of your application. Running the simulation results in load characteristics, i.e. torque or speed curves over time. You can import these load profiles into TIA Selection Tool to select the suitable Control Unit and dimension the drive to best fit to the demand. So as a result you have well selected SINAMICS converters and SIMOTICS motors with the help of the digital twin.

### Use case 2: Virtual commission your PLC already in the design phase 西门子PLC模块北京授权一级代理商

If you are designing a machine, you want to make sure the PLC code works with your SINAMICS drive. After writing the PLC code in TIA Portal, you can connect it via PLCSIM Advanced to any time-based simulation tool (e.g. SIMIT). Integrated into the simulation tool, SINAMICS DriveSim Basic acts as a realistic communication partner for the PLC. Next, you can commission the virtual PLC in TIA Portal as you would do with a real PLC connected to a real drive. Without simulation, you would need to do that on-site. With simulation, you not only save time, but also have the freedom to try out various configurations and optimize your PLC code early in the process.

### Use case 3: Test and improve interaction between PLC, drives and application virtually

With the third Use case, you can connect a simulation tool such as NX Mechatronic Concept Designer to visualize the mechanical movements of your application. This way, you ensure that the drive behaves according to the desired machine performance. You can test several fault scenarios and optimize the interaction between PLC, application and drive virtually so overall, you can avoid unplanned machine behavior and increase the performance of your setup.

西门子S7-1500系列在各个方面的\*\*设计，为用户提供了\*为完善的自动化控制系统解决方案。它的扩展信号模块功能强大，设计理念，帮助用户搭建经济性好，响应\*，运行稳定的控制系统。相对于S7-300/400，西门子S7-1500采用新型的背板总线技术，采用高波特率和高传输协议，使其信号处理速度；S7-1500所有CPU集成1-3个PROFINET接口，可实现低成本\*组态现场级通信和公司网络通信，而S7-300/400 PLC只有个别型号CPU才集成有PROFINET接口。西门子S7-1500系列是西门子PLC系列的\*\*产品，它在性价比，运行能力，通讯功能，扩展性能，响应速度，显示功能等方面，相比西门子S7-300系列，西门子S7-400系列都有了大幅提升，从而为用户在自动化控制系统的配置中提供了\*加的解决方案。西门子PLC模块北京授权一级代理商西门子S7-1500系列在各个方面的\*\*设计，为用户提供了\*为完善的自动化控制系统解决方案，用户通过合理的配置西门子S7-1500系列的故障模块，可以使得控制系统发挥\*好的作用，在性方面得到提升，为用户在调试和设备维护过程中提高工作效率，为企业节约成本，带来\*大的效益。西门子PLC模块北京授权一级代理商西门子S7-1500的外观设计\*人性化，选用时\*容易被工程现场人员所接受。S7-1500模块大小比S7-300稍大，机架类似于S7-300，前连接器安装时具有接线位置，并提供的电源元件和屏蔽支架及线卡，使接线\*方便，可靠性\*高；尤其让工程人员心动的是CPU上配置有LED显示屏，可方便显示CPU状态和故障信息等。我们公司凭着求真务实的工作作风、\*\*发展的理想信念，搏击于商海大潮之中，从无到有，从小到大，一步一个脚印，在市场风雨的洗礼与磨砺中茁壮成长。西门子PLC模块北京授权一级代理商