

# SIEMENS西门子衡水S7-400模块代理商

产品名称	SIEMENS西门子衡水S7-400模块代理商
公司名称	浔之漫智控技术（上海）有限公司-西门子总部
价格	.00/件
规格参数	西门子:模块 纸盒:包装 现货:全新原装
公司地址	上海市松江区广富林路4855弄88号3楼
联系电话	18602118379 18602118379

## 产品详情

SIEMENS西门子衡水S7-400模块代理商高端性能范围内的高性能 CPU

适用于对性能要求很高的工厂

CPU 416-3 PN/DP 中集成了 PROFINET 功能

### 应用

CPU 416-2, CPU 416-3 and CPU 416-3 PN/DP are powerful SIMATIC S7-400 CPUs.

The integrated PROFIBUS DP interfaces in the CPU 416-2 and CPU 416-3 make it possible to connect directly to the PROFIBUS DP fieldbus as a master or slave.

An additional DP master system can be connected to the CPU 416-3 and CPU 416-3 PN/DP using the IF 964-DP interface module.

The integrated PROFINET interface of the CPU 416-3 PN/DP includes switch functionality when the ERTEC 400-ASIC is used. This forms the basis for providing two externally accessible PROFINET ports. In addition to hierarchical network topologies, this also enables the creation of line structures in the new S7-400 controllers.

Note: Only the 6ES7 964-2AA04-0AB0 interface submodule may be used.

### 设计

Both CPUs are equipped with the following:

**Powerful processor:**The CPUs achieve instruction execution times as low as 0.03 s per binary instruction.

**CPU 416-2:** 5.6 MB RAM (of which 2.8 MB each for program and data);**CPU 416-3:** 11.2 MB RAM (of which 5.6 MB each for program and data);**CPU 416-3 PN/DP:** 11.2 MB RAM (of which 5.6 MB each for program and data);fast RAM for parts of the user program relevant to execution.

**Flexible expansion:**Up to 262144 digital and 16384 analog inputs/outputs.

**Multi-point interface MPI:**With the MPI it is possible to establish simple networking of max. 32 stations at a data transmission rate of up to 12 Mbit/s. The CPUs can establish up to 44 connections to stations of the communications bus (C bus) and the MPI.

**Mode selector switch:**Designed as toggle switch.

**Diagnostics buffer:**The last 120 fault and interrupt events are retained in a ring buffer for diagnostic purposes. The number of entries can be parameterized.

**Real-time clock:**The date and time are appended to diagnostic messages of the CPU.

**Memory card:**For expansion of the integrated load memory. RAM and FEPROM cards (FEPROM for retentive storage) are available

**Combined MPI/DP interface and integrated PROFIBUS DP interface (CPU 416-2 and CPU 416-3):**The PROFIBUS DP master interface allows a distributed automation configuration offering high speed and ease of use. From the user's point of view, the distributed I/O is treated as central I/O (same configuring, addressing and programming).**Mixed configuration:** SIMATIC S5 and SIMATIC S7 as PROFIBUS master according to EN 50170.

CPU 416-3 and CPU 416-3 PN/DP also include:

**A module slot:**An additional PROFIBUS DP master system can be connected via the IF 964-DP interface module.

CPU 416-3 PN/DP additionally includes:

**PROFINET interface with 2 ports (switch):**

**PROFINET I/O, 256 IO devices connectable**

**PROFINET CBA**

400背板总线 and 可直接连接到CPU的通信接口，可实现许多大量通信线路的高性能操作。例如，这样可以拥有一条用于HMI和编程任务的通信线路、一条用于高性能等距运动控制组件的通信线路和一条“正常” I/O现场总线。另外，还可以实现额外需要的与MES/ERP系统或Internet的连接。工程组态和诊断:结合使用SIMATIC工程组态工具，可极为地对S7-400进行组态和编程，尤其对于采用高性能工程组件的广泛自动化任务。为此，可以使用语言(如SCL)以及用于顺序控制、状态图和工艺图的图形化组态工具。西门子s7-400模块CPU412-3H

在制造自动化和过程自动化中，对一切中、的运用来说，SIMATIC S7-400都是功用强大的PLC。S7-400 PLC分为规范型和容错型(可配置成故障安全型)两种。强大的体系功用和便捷的用户界面使得SIMATIC S7-400成为各种自动化功用的技巧和经济性处理计划9种标准(CPU412-1、CPU412-2、CPU414-2、CPU

414-3、CPU 414-3 PN/DP、CPU416-2、CPU416-3、CPU 416-3 PN/DP、CPU 417-4)

西门子S7-400系列PLC功能S7-400提供有大量功能，支持用户的S7-400编程、调试和维护等工作:高速执行指令。用户友好的参数赋值人机界面:

S7-400的操作系统已经集成了用户友好的OCM服务。诊断功能和自测试:CPU的智能诊断系统可以连续地监测系统功能并记录错误和系统的事件。口令保护。模式选择开关。系统功能。SIMATIC S7-400符合以下国内和标准:CE标识UL认证CSA认证或cULus认证FM认证ATEX认证C-

Tick,EMC标记，用于澳大利亚和新西兰IEC

61131-2级船社认证ABS(美国船级社) BV(法国船级社)DNV(挪威船级社) GL

(德国劳氏船级社)L(英国劳氏船级社)Class NK(日本船级社) 详情参见/S7-400自动化系统S7-400模块详情/设计S7-400系统的实现可以使用模块化设计，并可以简单地忽略插槽规则。S7-400的\*\*特点是工作稳定\*\*，\*风扇，且其中的信号模块支持热插拔。S7-400设计简洁，使用灵活，操作为方便:模块安装非常简单。背板总线集成在安装机架中配\*\*械部件数码编号，模块更换为简便。现场\*\*的连

接。TOP连接：预装配接线配有1至3针接口和螺钉端子或弹簧端子。规定的安装深度:所有接口和接头都应该安装在模块和保护盖板的内部。没有槽位规则。通讯CPU和通信处理机支持以下通信类型:过程通讯;对于通过总线(AS-接口、PROFIBUS DP或者PROFINET)实现循环

功能

Block protection:A password concept protects the user program from unauthorized access.

Integral HMI services:The user only has to specify the source and destination of the data with HMI devices. The data are then transported cyclically and automatically by the system.

Integrated communications functions:

PG/OP communication

Shared data communication

S7 standard communication

S7 communication

Firmware update using network

CPU 416-3 PN/DP additional:

Open communication over TCP/IP, UDP and ISO-on-TCP (RFC1006)

Distributed intelligence in Component Based Automation (CBA) on PROFINET

Additional diagnostic options with integrated web server

Parameterizable attributes

The STEP 7 tool "Hardware Configuration" can be used to program the properties and response of the S7-400 including the CPUs, e.g.

Multi-point interface MPI:

Definition of station addresses.

Startup/cycle behavior

Stipulation of the maximum cycle time and communications load

Address assignment: Addressing of I/O modules.

Retentive ranges: Definition of the number of retentive bit memories, counters, timers, data blocks and clock memories.

Size of the process image, local data.

Length of the diagnostics buffer

Protection level: Definition of access authorization for program and data

System diagnostics: Definition of the handling and scope of diagnostic messages

Timed interrupts: Setting of periodicity

PROFINET interface

Parameterization of time synchronization using NTP procedure

Indication and information functions

Status and error indicators: LEDs indicate internal and external errors and operating states such as RUN, STOP, Restart, Test function, for example

Test functions: The programming device can be used to display signal states in program execution, modify process tags irrespective of the user program, read out the contents of stack memories, run separate program steps and inhibit program components

Information functions: The programming device can be used to provide the user with information on the memory capacity and operating mode of the CPU and the current utilization of the working and load memories