

2.4 Properties

Article number

6ES7515-2AM01-0AB0

View of the module

The following figure shows the CPU 1515-2 PN.



Figure 2-1 CPU 1515-2 PN

Note

Protective film

Note that a protective film is attached to the display of the CPU when shipped from the factory. Remove the protective film if necessary.

Properties

CPU 1515-2 PN has the following technical properties:

- Communication:

- Interfaces

CPU 1515-2 PN has two interfaces.

The **1st PROFINET interface** (X1 P1, X1 P2) has two ports. In addition to PROFINET basic functionality, it also supports PROFINET IO RT (real-time) and IRT (isochronous real-time). PROFINET IO communication or real-time settings can be configured.

Port 1 and port 2 can also be used as ring ports for the configuration of redundant ring structures in Ethernet.

The **2nd PROFINET interface** (X2 P1) has one port. In addition to PROFINET basic functionality, it also supports PROFINET IO RT (real-time). The basic functionality of PROFINET supports HMI communication, communication with the configuration system, communication with a higher-level network (backbone, router, Internet) and communication with another machine or automation cell.

Note

Special consideration when PROFINET IO communication is configured on the 2nd PROFINET interface (X2 P1)

If you configure PROFINET IO communication at the CPU (as of FW version V2.0) on the 2nd PROFINET interface (X2 P1) (operation as IO controller or IO device), additional system load occurs. You can find additional information in the Cycle and Response Times (<http://support.automation.siemens.com/WW/view/en/59193558>) Function Manual.

Note

IP subnets

The IP subnets of the two interfaces must be different. This means that the subnets of the IP addresses of the two interfaces must differ from each other.

- OPC UA

With OPC UA, data is exchanged via an open and vendor-neutral communication protocol. The CPU, as OPC UA server, can communicate with OPC UA clients such as HMI panels, SCADA systems, etc.

- Integrated Web server:

A Web server is integrated in the CPU. You can read out the following information with the Web server:

- Start page with general CPU information
- Identification information
- Contents of the diagnostics buffer
- Query of module states
- Firmware update
- Alarms (without acknowledgment option)
- Information about communication
- PROFINET topology
- Tag status, writing tags
- Watch tables
- Memory usage
- User pages
- Data logs (if used)
- Online backup and restoration of the configuration.
- Diagnostic information for the motion control technology objects
- Display of trace recording stored on the SIMATIC memory card
- Readout service data
- Basic Web pages
- Display of the Web server in 3 project languages, for example, comments and message texts
- Recipes
- User-defined Web pages