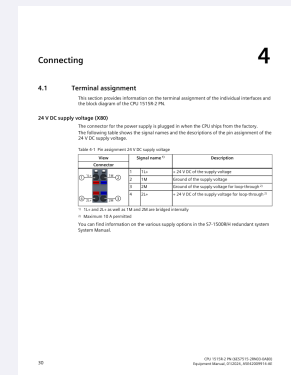


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7515-2RN03-0AB0
SIMATIC S7-1500R CPU 1515R-2 PN



PRODUCT	6ES7515-2RN03-0AB0
FAMILY	SIMATIC S7-1500R/H
FUNCTION	SIMATIC S7-1500R CPU 1515R-2 PN
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens A5E42009914-AE, 01/2024; exact-model Industry Mall. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Program work memory	1 MB
Data work memory	4.5 MB
Typical bit processing time	20 ns
Ethernet interface arrangement	X1: two-port PROFINET RT switch; X2: one basic Ethernet port
Maximum PROFINET IO devices	64 on the integrated IO controller
Local rack capacity	5 modules: CPU, up to 2 PS and 2 CP
Permissible DC supply	19.2 to 28.8 V DC; 24 V DC rated

02 MOUNTING AND CONNECTION

- Use qualified personnel and the complete S7-1500R/H system manual for safe cabinet installation and commissioning.
- Mount the CPUs on the specified rail, together or separately; a standard 35 mm rail requires the documented adapter.
- Connect X80: pin 1 is 1L+, pin 2 is 1M, pin 3 is 2M and pin 4 is 2L+; loop-through is limited to 10 A.
- Cable the redundant PROFINET ring through X1 P1R and X1 P2R. X2 is not an additional IO-controller interface.
- Provide one compatible SIMATIC Memory Card for each CPU and restore the validated project, firmware pairing and redundancy IDs.

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OFFICIAL INSTALLATION REFERENCE

Connecting

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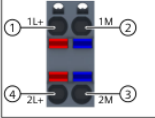
4.1 Terminal assignment

This section provides information on the terminal assignment of the individual interfaces and the block diagram of the CPU 1515R-2 PN.

24 V DC supply voltage (X80)

The connector for the power supply is plugged in when the CPU ships from the factory. The following table shows the signal names and the descriptions of the pin assignment of the 24 V DC supply voltage.

Table 4-1 Pin assignment 24 V DC supply voltage

View	Signal name ¹⁾		Description
Connector			
	1	1L+	+ 24 V DC of the supply voltage
	2	1M	Ground of the supply voltage
	3	2M	Ground of the supply voltage for loop-through ²⁾
	4	2L+	+ 24 V DC of the supply voltage for loop-through ²⁾

¹⁾ 1L+ and 2L+ as well as 1M and 2M are bridged internally

²⁾ Maximum 10 A permitted

You can find information on the various supply options in the S7-1500R/H redundant system System Manual.

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CABLE ROUTING AND CONNECTION

- Mount the CPUs on the specified rail, together or separately; a standard 35 mm rail requires the documented adapter.
- Connect X80: pin 1 is 1L+, pin 2 is 1M, pin 3 is 2M and pin 4 is 2L+; loop-through is limited to 10 A.
- Cable the redundant PROFINET ring through X1 P1R and X1 P2R. X2 is not an additional IO-controller interface.
- Provide one compatible SIMATIC Memory Card for each CPU and restore the validated project, firmware pairing and redundancy IDs.
- Check primary/backup status, RUN-Redundant diagnostics and the configured IO devices before handing control back to operations.

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INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Check RUN-Redundant status, primary/backup roles and the intended IO communication.
- Record the installed order number and baseline operating condition.

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CONTROLLED DOCUMENTS

Official source	Siemens A5E42009914-AE, 01/2024; exact-model Industry Mall
Product record	6ES7515-2RN03-0AB0
Manufacturer	Siemens
Support	INFO@AMIKON.CN