AMIKON TECHNICAL DOCUMENTATION

# Product Data Sheet

### Siemens 6ES7513-1RL00-0AB0

CPU 1513R-1 PN Redundant Controller

| PROGRAM | DATA | INTERFACE | PLATFORM |
|---|---|---|---|
| **300 KB** | **1.5 MB** | **Two-port PROFINET RT** | **S7-1500R** |

Siemens 6ES7513-1RL00-0AB0 is the CPU 1513R-1 PN for the S7-1500R redundant system. Each controller provides 300 KB of program work memory, 1.5 MB of data work memory and one two-port PROFINET RT interface. A SIMATIC Memory Card is required.

## 01 VERIFIED TECHNICAL INFORMATION

| | |
|---|---|
| Program work memory | 300 KB |
| Data work memory | 1.5 MB |
| Supply voltage | 24 V DC nominal; 19.2 to 28.8 V DC permitted |
| Rated current consumption | 0.7 A |
| Typical power loss | 5.7 W |
| Load memory | SIMATIC Memory Card required; up to 32 GB |
| Typical bit-operation time | 80 ns |

Manufacturer evidence: CPU 1513R-1 PN Equipment Manual; exact-model manual section and manufacturer data sheet.

## 02 TECHNICAL INFORMATION CONTINUED

| | |
|---|---|
| PROFINET interface | One interface, two ports, integrated switch; RT IO controller |
| Connected IO devices | 64 maximum in the cited specification |
| Isochronous and IRT operation | Not supported |
| Retentive data capacity | 128 KB maximum, including timers, counters and flags |
| Process-image address space | 32 KB inputs and 32 KB outputs |
| Media redundancy | MRP supported; MRPD not supported |
| PID functions | PID_Compact, PID_3Step and PID-Temp supported |
| Operating temperature | 0 to 60 C horizontal, display limit 50 C; 0 to 40 C vertical, display limit 40 C |

## 03 SOURCE AND CONFIGURATION CHECKS

Two R-series CPUs run the redundant application with primary and backup roles, synchronizing through the PROFINET ring. The exact 1RL00 feature set, firmware and distributed device arrangement determine the supported services. This CPU is not a standalone fail-safe controller or an interchangeable standard 1513 variant.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

**Siemens original documentation and product reference**

**AMIKON PRODUCT SUPPORT**

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