

## FIELD INSTALLATION QUICK GUIDE

# Installation Instructions

Siemens 6ES7516-3FN02-0AB0

CPU 1516F-3 PN/DP

|             |                                     |
|-------------|-------------------------------------|
| PRODUCT     | 6ES7516-3FN02-0AB0                  |
| SUPPLY      | 24 V DC                             |
| INTERFACES  | PROFINET IRT; PROFINET RT; PROFIBUS |
| MEMORY CARD | SIMATIC Memory Card required        |

Prepared from the exact Siemens data sheet and S7-1500 installation requirements. This guide does not replace the controlled Siemens system manual or safety documentation.

## 01 CONFIRM THE CONFIGURATION

|                       |                                     |
|-----------------------|-------------------------------------|
| Article Number        | 6ES7516-3FN02-0AB0                  |
| CPU                   | CPU 1516F-3 PN/DP                   |
| Program / Data Memory | 1.5 MB / 5 MB                       |
| Interfaces            | PROFINET IRT; PROFINET RT; PROFIBUS |
| Safety / Runtime      | SIL 3 / PL e                        |

## 02 BEFORE INSTALLATION

- Verify the complete Siemens article number and approved hardware configuration.
- De-energize the S7-1500 station and connected circuits before work.
- Use the correct mounting rail, connectors and 24 V DC power arrangement.
- Insert the required SIMATIC Memory Card before commissioning.
- Use controlled STEP 7 project data and access protection.

**03****MOUNTING AND CONNECTION**

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- Install the CPU in a documented S7-1500 mounting position.
- Connect the 24 V DC supply with correct polarity and protective grounding.
- Connect only the interfaces documented for this exact CPU article.
- Maintain enclosure, temperature and clearance requirements from the Siemens system manual.
- Do not alter safety wiring or the F-configuration without an approved safety procedure.

**04****ENGINEERING AND COMMISSIONING**

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- Configure the CPU with a supported STEP 7 TIA Portal version.
- Load the controlled standard and, where applicable, fail-safe program.
- Verify device names, addresses and interface diagnostics.
- Test all standard and safety functions under the validated commissioning plan.
- Record the installed article number, firmware and baseline diagnostics.

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## FINAL CHECKS

- Confirm a stable 24 V DC supply and normal CPU LED status.
- Check the SIMATIC Memory Card and project compatibility.
- Verify all configured PROFINET and PROFIBUS devices where applicable.
- Complete functional testing before releasing the equipment to service.
- Retain controlled Siemens documentation with the maintenance record.

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## CONTROLLED SOURCE

|                  |                    |
|------------------|--------------------|
| Manufacturer     | Siemens AG         |
| Exact Article    | 6ES7516-3FN02-0AB0 |
| Technical Source | Siemens data sheet |
| Commodity Code   | 85371091           |