MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

## 6SE7090-0XX84-0FF5

**CBP2 PROFIBUS COMMUNICATION MODULE**

Used with the applicable SIMOVERT MASTERDRIVES Motion Control configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens S7-Technology Function Manual

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# Engineering Tools

**Function Manual**


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## 2.3 Integration of the PLCopen-compliant motion control functions in STEP 7

The PLCopen-compliant Motion Control functions of your Technology CPU let you directly utilize your Motion Control knowledge. Motion Control features functions which are compliant with PLCopen specifications in terms of interfaces, functionality and sequences, and which facilitate engineering, commissioning and service.

Thanks to the standardized interface, you can almost seamlessly implement the function blocks required to initiate your Motion Control commands in the application program.

## 2.4 Supported components and systems

### Valid for integrated technology firmware version V4.1.5.4

This section describes applications with firmware versions V3.0.x, V3.1.x, V3.2.x, V4.1.1.

### SIMATIC Technology CPU / software

| Function | Product | Article number |
|---|---|---|
| SIMATIC Technology CPU | CPU 315T-2DP (working memory 256 KB) | 6ES7315-6TH13-0AB0 |
| | CPU 315T-3 PN/DP (working memory 384 KB) | 6ES7315-7TJ10-0AB0 |
| | CPU 317T-2DP (working memory 1024 KB) | 6ES7317-6TK13-0AB0 |
| | CPU 317T-3 PN/DP (working memory 1024 KB) | 6ES7317-7TK10-0AB0 |
| SIMATIC Technology CPU with Safety Functionality | CPU 317TF-2 DP (work memory 1536 kB) | 6ES7317-6TF14-0AB0 |
| | CPU 317TF-3 PN/DP (working memory 1536 KB) | 6ES7317-7UL10-0B0 |
| Micro Memory Card | MMC 8 MB | 6ES7953-8LP20-0AA0 |
| S7 Technology option package V4.2 | S7-Technology V4.2 SP5 | 6ES7864-1CC42-0YA5 |
| STEP 7 | STEP 7 V5.6 (or newer) | 6ES7810-4CCxx-xxxx |
| S7 Distributed Safety options package (for use of the SIMATIC Technology CPU with safety functionality) | S7 Distributed Safety V5.4 SP5 UD2 (or newer) | 6ES7833-1FC02-0Yxx |
| S7 F ConfigurationPack (for use of the SIMATIC Technology CPU with safety functionality) | S7 F ConfigurationPack V5.5 SP13 | Available as download |

The following software product can be used in addition to the "S7-Technology" options package:

| Function | Product | Article number |
|---|---|---|
| SCOUT CamTool | SCOUT CamTool V3.0 SP1 | 6AU1810-0FA30-1XA0 |

## Components on PROFIBUS DP(DRIVE)

The Technology CPU supports the components listed below for technological tasks in isochronous mode on DP(DRIVE) (status at the time this manual was released for printing):

| Product | Article number |
|---|---|
| **SIMODRIVE** | |
| SIMODRIVE 611U universal | 6SN1118-xNH00-0AAx |
| SIMODRIVE 611U universal HR | 6SN1114-0NB0x-0AAx |
| Option module Motion Control with PROFIBUS DP (for SIMODRIVE 611U) | 6SN1114-0NB01-0AA0 |
| SIMODRIVE POSMO CA | 6SN2703-3AAx |
| SIMODRIVE POSMO CD | 6SN2703-2AAx |
| SIMODRIVE POSMO SI | 6SN24x |
| SIMODRIVE 611U MC, POSMO SI/CA/CD | 6SN1114-0NB0x-0AAx |
| SIMODRIVE sensor single-turn / synchro-flange | 6FX2001-5FP12 |
| SIMODRIVE sensor single-turn / clamping flange | 6FX2001-5QP12 |
| SIMODRIVE sensor multiturn / synchro-flange | 6FX2001-5FP24 |
| SIMODRIVE sensor multiturn / clamping flange | 6FX2001-5QP24 |
| **MICROMASTER 4** | |
| COMBIMASTER 411 | 6SE6401-0PB00-0AA0 |
| MICROMASTER 420 | 6SE6400-1PB00-0AA0 |
| MICROMASTER 430 | 6SE6400-1PB00-0AA0 |
| MICROMASTER 440 | 6SE6400-1PB00-0AA0 |
| **MASTERDRIVES with communications module CBP2** | |
| Motion Control | 6SE7090-0xx84-0FF5 |
| Motion Control Plus | 6SE7090-0xx84-0FF5 |
| Vector Control CUVC | 6SE7090-0xx84-0FF5 |
| Vector Control Plus | 6SE7090-0xx84-0FF5 |
| Note the order supplement "Gxx" when ordering communications module CBP2. | |
| **SINAMICS** | |
| SINAMICS DCM Advanced-CUD | 6RA80xx-xxxxx-xxxx |
| SINAMICS DCM Advanced-CUD right | 6RY1803-0AAx5-xxxx |
| SINAMICS DCM Standard-CUD | 6RA80xx-xxxxx-xxxx |
| SINAMICS DCM Standard-CUD right | 6RY1803-0AAx0-xxxx |
| SINAMICS G120 CU230P-2DP (firmware up to and including V4.7) | 6SL3243-xxxx0-xPxx |

| Product | Article number |
|---|---|
| SINAMICS G120 CU240B-2 DP<br>(firmware up to and including V4.7) | 6SL3244-xxxx0-xPxx |
| SINAMICS G120 CU240E-2 DP<br>(firmware up to and including V4.7) | 6SL3244-xxxx2-xPxx |
| SINAMICS G120 CU240E-2 DP<br>(firmware up to and including V4.7) | 6SL3244-xxxx3-xPxx |
| SINAMICS G120 CU240S DP<br>(firmware up to and including V3.2.x) | 6SL324x-0BAxx-xPAx |
| SINAMICS G120 CU240S DP F<br>(firmware up to and including V3.2.x) | 6SL3244-0BA21-1PA0 |
| SINAMICS G120 CU250S-2 DP Vector<br>(firmware up to and including V4.7) | 6SL3246-xxxx2-xPxx |
| SINAMICS G120C<br>(firmware up to and including V4.7) | 6SL3210-1KExx-xxPx |
| SINAMICS G120D CU240D DP<br>(firmware up to and including V3.2.x) | 6SL3544-0FA20-1PA0 |
| SINAMICS G120D CU240D DP F<br>(firmware up to and including V3.2.x) | 6SL3544-0FA21-1PA0 |
| SINAMICS G120D CU240D-2 DP<br>(firmware up to and including V4.7) | 6SL3544-xxxx0-xPxx |
| SINAMICS G120D CU240D-2 DP-F<br>(firmware up to and including V4.7) | 6SL3544-xxxx1-xPxx |
| SINAMICS G120D CU250D-2 DP-F<br>(firmware up to and including V4.7) | 6SL3546-xxxx1-xPxx |
| SINAMICS G130 CU320<br>(firmware up to and including V2.6.2) | 6SL3040-0xA00-0xxx |
| SINAMICS G130 CU320-2 DP<br>(firmware up to and including V4.8) | 6SL3040-1MA00-0xxx |
| SINAMICS G150 CU320<br>(firmware up to and including V2.6.2) | 6SL3040-0xA00-0xxx |
| SINAMICS G150 CU320-2 DP<br>(firmware up to and including V4.8) | 6SL3040-1MA00-0xxx |
| SINAMICS GL150 CU320<br>(firmware up to and including V2.6.2) | 6SL3040-0xA00-0xxx |
| SINAMICS GL150 CU320-2 DP<br>(firmware up to and including V4.5) | 6SL3040-1MA00-0xxx |
| SINAMICS GM150 CU320<br>(firmware up to and including V2.6.2) | 6SL3040-0xA00-0xxx |
| SINAMICS GM150 CU320-2 DP<br>(firmware up to and including V4.5) | 6SL3040-1MA00-0xxx |
| SINAMICS S110 CU305 DP<br>(firmware up to and including V4.4) | 6SL3040-0JA00-0AAx |
| SINAMICS S120 CU310 DP<br>(firmware up to and including V2.6.2) | 6SL3040-0xA00-0xxx |
| SINAMICS S120 CU320<br>(firmware up to and including V2.6.2) | 6SL3040-0xA00-0xxx |
| SINAMICS S120 CU320-2 DP<br>(firmware up to and including V4.8) | 6SL3040-1MA00-0xxx |