SIEMENS

SIMATIC NET

Industrial Remote Communication - TeleControl SINAUT ST7 - Volume 1

System Manual

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3.3 Installation guidelines and compatible CPUs

3.3.1 Installing the TIM 3V-IE variants in an S7-300

Introduction

The TIM 3V-IE variants can be used in an S7-300 as communications processors (CP). In principle, all S7-300 standard and compact CPUs can be combined with these TIMs. There are, however, constraints that must be taken into account relating to the way in which data exchange between the TIM and the CPU in the rack is handled (the SINAUT program). For the TIM 3V-IE variants, there are two options:

- TD7onTIM

  This SINAUT TD7 program runs on the TIM.

  All standard and compact CPUs can be used without restrictions.

- TD7onCPU

  This SINAUT TD7 program runs on the CPU and is created for the CPU with blocks from the SINAUT TD7 library.

  In this case, only CPUs with a work memory adequate to accommodate the SINAUT program can be used. The size of the program depends on the amount of data to be transmitted. At least 20 KB are required. TD7onCPU can be used for several standard CPU types if the following software packages are used:

  – "SINAUT TD7 library for the CPU" as of V2.2

  – "TIM firmware" as of V1.2

The following CPU lists also include older CPU types that can no longer be ordered as new devices but that nevertheless may still be in use in the field.

Standard CPU type	As of article number
CPUs with partyline *	
CPU 312	6ES7 312-1AD10-0AB0 6ES7 312-1AE13-0AB0 6ES7 312-1AE14-0AB0
CPU 312 IFM	6ES7 312-5AC00-0AB0 6ES7 312-5AC02-0AB0
CPU 313	6ES7 313-1AD00-0AB0 6ES7 313-1AD01-0AB0 6ES7 313-1AD02-0AB0 6ES7 313-1AD03-0AB0
CPU 314	6ES7 314-1AE02-0AB0 6ES7 314-1AE03-0AB0 6ES7 314-1AE04-0AB0 6ES7 314-1AF10-0AB0 6ES7 314-1AF11-0AB0 6ES7 314-1AG13-0AB0 6ES7 314-1AG14-0AB0

Standard CPU type	As of article number
CPU 314 IFM	6ES7 314-5AE02-0AB0 6ES7 314-5AE03-0AB0 6ES7 314-5AE10-0AB0
CPU 315	6ES7 315-1AF01-0AB0 6ES7 315-1AF02-0AB0 6ES7 315-1AF03-0AB0
CPU 315-2 DP	6ES7 315-2AF01-0AB0 6ES7 315-2AF02-0AB0 6ES7 315-2AF03-0AB0 6ES7 315-2AG10-0AB0 6ES7 315-2AH14-0AB0
CPUs without partyline *	
CPU 315-2 PN/DP	6ES7 315-2EG10-0AB0 6ES7 315-2EH13-0AB0 6ES7 315-2EH14-0AB0
CPU 315T-2 DP	6ES7 315-6TG10-0AB0 6ES7 315-6TH13-0AB0
CPU 315T-3 PN/DP	6ES7 315-7TH10-0AB0
CPU 315F-2 DP	6ES7 315-6FF00-0AB0 6ES7 315-6FF01-0AB0 6ES7 315-6FF04-0AB0
CPU 315F-2 PN/DP	6ES7 315-2FH10-0AB0 6ES7 315-2FH13-0AB0 6ES7 315-2FJ14-0AB0
CPU 316	6ES7 316-1AG00-0AB0
CPU 316-2 DP	6ES7 316-2AG00-0AB0
CPU 317-2 DP	6ES7 317-2AJ10-0AB0 6ES7 317-2AK14-0AB0
CPU 317-2 PN/DP	6ES7 317-2EJ10-0AB0 6ES7 317-2EK13-0AB0 6ES7 317-2EK14-0AB0
CPU 317T-2 DP	6ES7 317-6TJ10-0AB0 6ES7 317-6TK13-0AB0
CPU 317T-3 PN/DP	6ES7 317-7TK10-0AB0
CPU 317TF-2 DP	6ES7 317-6TF14-0AB0
CPU 317TF-3 PN/DP	6ES7 317-7UL10-0AB0
CPU 317F-2 DP	6ES7 317-6FF00-0AB0 6ES7 317-6FF03-0AB0 6ES7 317-6FF04-0AB0
CPU 317F-2 PN/DP	6ES7 317-2FJ10-0AB0 6ES7 317-2FK13-0AB0 6ES7 317-2FK14-0AB0
CPU 318-2	6ES7 318-2AJ00-0AB0
CPU 319-3 PN/DP	6ES7 318-3EL00-0AB0 6ES7 318-3EL01-0AB0
CPU 319F-3 PN/DP	6ES7 318-3FL00-0AB0 6ES7 318-3FL01-0AB0

3.3.2 Installing the TIM 4R-IE in an S7-300

Introduction

The TIM 4R-IE can be used in an S7-300 as a communications processor (CP). All S7-300 standard and compact CPUs can be combined with the TIM 4R-IE. There are, however, constraints that must be taken into account relating to the way in which data exchange between the TIM and the CPU in the rack is handled (the SINAUT program). For the TIM 4R-IE, there are two options:

- TD7onTIM
  This SINAUT TD7 program runs on the TIM.
  All standard and compact CPUs can be used without restriction.
- TD7onCPU
  This SINAUT TD7 program runs on the CPU and is created for the CPU with the blocks from the SINAUT TD7 library.
  In this case, only CPUs with a work memory adequate to accommodate the SINAUT program can be used. The size of the program depends on the amount of data to be transmitted. At least 20 Kbytes are required.

  TD7onCPU can be used for several CPU types if the following software packages are used:

  – "SINAUT TD7 library for the CPU" as of V2.2

  – "TIM firmware" as of V1.0

The following CPU lists also include older CPU types that can no longer be ordered as new devices but that nevertheless may still be in use in the field.

Standard CPU type	As of article number
CPUs with partyline *	
CPU 312	6ES7 312-1AD10-0AB0 6ES7 312-1AE13-0AB0 6ES7 312-1AE14-0AB0
CPU 312 IFM	6ES7 312-5AC00-0AB0 6ES7 312-5AC02-0AB0
CPU 313	6ES7 313-1AD00-0AB0 6ES7 313-1AD01-0AB0 6ES7 313-1AD02-0AB0 6ES7 313-1AD03-0AB0
CPU 314	6ES7 314-1AE02-0AB0 6ES7 314-1AE03-0AB0 6ES7 314-1AE04-0AB0 6ES7 314-1AF10-0AB0 6ES7 314-1AF11-0AB0 6ES7 314-1AG13-0AB0 6ES7 314-1AG14-0AB0
CPU 314 IFM	6ES7 314-5AE02-0AB0 6ES7 314-5AE03-0AB0 6ES7 314-5AE10-0AB0

Standard CPU type	As of article number
CPU 315	6ES7 315-1AF01-0AB0 6ES7 315-1AF02-0AB0 6ES7 315-1AF03-0AB0
CPU 315-2 DP	6ES7 315-2AF01-0AB0 6ES7 315-2AF02-0AB0 6ES7 315-2AF03-0AB0 6ES7 315-2AG10-0AB0 6ES7 315-2AH14-0AB0
CPUs without partyline *	
CPU 315-2 PN/DP	6ES7 315-2EG10-0AB0 6ES7 315-2EH13-0AB0 6ES7 315-2EH14-0AB0
CPU 315T-2 DP	6ES7 315-6TG10-0AB0 6ES7 315-6TH13-0AB0
CPU 315T-3 PN/DP	6ES7 315-7TH10-0AB0
CPU 315F-2 DP	6ES7 315-6FF00-0AB0 6ES7 315-6FF01-0AB0 6ES7 315-6FF04-0AB0
CPU 315F-2 PN/DP	6ES7 315-2FH10-0AB0 6ES7 315-2FH13-0AB0 6ES7 315-2FJ14-0AB0
CPU 316	6ES7 316-1AG00-0AB0
CPU 316-2 DP	6ES7 316-2AG00-0AB0
CPU 317-2 DP	6ES7 317-2AJ10-0AB0 6ES7 317-2AK14-0AB0
CPU 317-2 PN/DP	6ES7 317-2EJ10-0AB0 6ES7 317-2EK13-0AB0 6ES7 317-2EK14-0AB0
CPU 317T-2 DP	6ES7 317-6TJ10-0AB0 6ES7 317-6TK13-0AB0
CPU 317T-3 PN/DP	6ES7 317-7TK10-0AB0
CPU 317TF-2 DP	6ES7 317-6TF14-0AB0
CPU 317TF-3 PN/DP	6ES7 317-7UL10-0AB0
CPU 317F-2 DP	6ES7 317-6FF00-0AB0 6ES7 317-6FF03-0AB0 6ES7 317-6FF04-0AB0
CPU 317F-2 PN/DP	6ES7 317-2FJ10-0AB0 6ES7 317-2FK13-0AB0 6ES7 317-2FK14-0AB0
CPU 318-2	6ES7 318-2AJ00-0AB0
CPU 319-3 PN/DP	6ES7 318-3EL00-0AB0 6ES7 318-3EL01-0AB0
CPU 319F-3 PN/DP	6ES7 318-3FL00-0AB0 6ES7 318-3FL01-0AB0