

Application Note



2500 Series® Programmable Automation Control System

Setting up S7-1500 as a Profibus Slave to CTI 2500 Series® Processors

CTI 2500-C200, C300, and C400 Processors include an on-board Profibus-DP Master port. In addition to connecting remote I/O bases, this port allows connection of any Profibus-DP slave to the CTI processor. This application note shows how connect an S7-1500 CPU from Siemens® as a Profibus Slave.



Setting up S71500 as Slave

In Step 7 Portal configure CM1542-5 card as a slave

Add the transfer area for the inputs and outputs

The screenshot displays the SIMATIC Manager interface for configuring a CM1542-5 module. The rack configuration at the top shows the following modules from left to right: Rail_0, R.C._1, DI 16x24VDC HF_1, DQ 16x24VDC/0.5..., AI 8xU/I HS_1, AQ 4xU/I ST_1, DI 16x24VDC BA_1, and CM1542-5_1. The main window shows the 'Properties' dialog for 'CM 1542-5_1 [Module]'. The 'Operating mode' section has 'DP slave' selected. The 'I-slave communication' section shows a table of transfer areas:

| ... | Transfer area | Type | Master address | Slave address | Length | Consistency |
|-----|-----------------|------|----------------|---------------|--------|-------------|
| 1 | Transfer area_1 | MS | | → I 20...23 | 4 byte | Unit |
| 2 | Transfer area_2 | MS | | ← Q 20...23 | 4 byte | Unit |
| 3 | <Add new> | | | | | |



Add the GSD file into Workshop and configure the output and input modules to mirror and match the Step 7 Portal configuration

