6DD1661-0AD0

01 / Product identity and control context

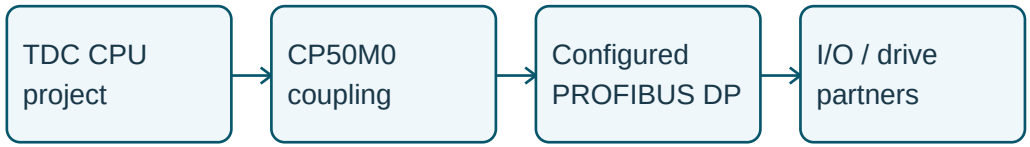
Communication Module

Siemens 6DD1661-0AD0 is the SIMATIC TDC CP50M0 communication module with 8 MB buffer memory and interfaces configurable for MPI or PROFIBUS DP.

Key characteristics

Module type	SIMATIC TDC CP50M0
Buffer memory	8 MB
Communication	Up to two MPI or PROFIBUS DP interfaces

Functional relationship



Controller project

Match the CP50M0 identity with the installed SIMATIC TDC CPU and rack project.

Configuration boundary

The technical description applies to CP50M0 order code 6DD1661-0AD0. Interface roles and supported communication partners must match the installed SIMATIC TDC project and engineering-tool versions.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

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02 / Technical characteristics

Hardware and functional data

Product series	SIMATIC TDC
Module designation	CP50M0
Buffer memory	8 MB
MPI interfaces	Up to 2, according to configuration
PROFIBUS DP interfaces	Up to 2, according to configuration

Interfaces and operating conditions

DP master engineering	COM PROFIBUS with compatible operating system
DP configuration transfer	Applicable SS52load procedure
Central function block	One @PRODP per CP50M0 interface
Service connection	Special CP50M0 RS-232 pin assignment
Communication uses	Configured process data and drive parameter exchange

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03 / Application and integration contexts

Distributed I/O coupling

Exchange configured process data with compatible PROFIBUS DP I/O stations while preserving addresses and data layouts.

Drive communication

Transfer the configured process and parameter data to compatible drive partners through the engineered DP coupling.

Communication relationship

Record bus roles, partner addresses and process-data assignments.

Controller communication

Connect to the configured higher-level or peer controller using the correct master/slave and process-data arrangement.

Configuration restoration

Restore the CP50M0 communication database and TDC function-block assignments when replacing or recommissioning the module.

Engineering transfer

Preserve the communication database and use the compatible COM PROFIBUS/SS52load workflow.

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04 / Installation and release decisions

Match CP50M0 identity

Use the full 6DD1661-0AD0 order code and installed hardware markings.

Preserve bus configuration

Record interface roles, station addresses, baud rate and partner process-data lengths.

Check engineering compatibility

Use a COM PROFIBUS environment compatible with the installed configuration and operating system.

Use the correct service cable

The CP50M0 service RS-232 connection has a special pin assignment; do not substitute an ordinary serial cable.

Restore the central blocks

Verify one @PRODP block for each configured CP50M0 communication interface.

Test partner exchanges

Check communication diagnostics and controlled process-data exchanges before releasing the system.

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05 / Lifecycle, evidence and related portfolio

Lifecycle status

The manufacturer lifecycle phase is End of Product Lifecycle. Plan support and replacement against the complete SIMATIC TDC project and installed communication arrangement.

Supply boundary

Apter Power availability and dispatch are confirmed separately from the manufacturer lifecycle phase.

Technical basis

Siemens System and Communication Configuring D7-SYS - SIMATIC TDC, A5E01115023-04, 07/2009; Siemens CP50M0 product information.

Related product references

Siemens 6DD1607-0AA2

Siemens 6DD1681-0CA2

Siemens 6DD1688-0AD0

Siemens 6DD1601-0AE0

Navigation only; no substitute or accessory compatibility is implied.

Offered-unit verification

Compare the complete label, connectors, mounting arrangement and applicable hardware/software revision. Confirm included components and accompanying documents in the quotation.

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