6DD1661-0AE0

01 / Product identity and control context

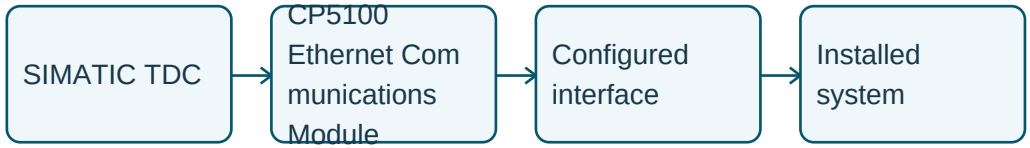
CP5100 Ethernet Communications Module

Siemens 6DD1661-0AE0 is the SIMATIC TDC CP5100 communications module for Industrial Ethernet using TCP/IP and UDP.

Key characteristics

Product type	CP5100 Ethernet Communications Module
Product series	SIMATIC TDC
Module designation	CP5100

Functional relationship



Module identity

Match 6DD1661-0AE0 and the CP5100 execution; preserve the installed hardware and configuration identity.

Configuration boundary

Facts apply to the CP5100 execution. Later CP51M1 protocol features and application examples do not automatically extend this module capability.

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	CP5100
Network connection	1 × RJ45 Industrial Ethernet
Network rate	10 / 100 Mbit/s, automatic detection
Protocols	TCP/IP and UDP
Application scope	Configured process-data and visualization communication

Interfaces and operating conditions

Applicable rack slots	18 to 21 in the specified TDC configuration
Channel modes	Handshake, Refresh, Multiple and Select
Maximum channels	256; limited by data size, access mode and available memory
Data-interface RAM	254 KB
Receive telegram limit	55,759 bytes
Send telegram limit	65,535 bytes

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03 / Application and integration contexts

Controller process data

Exchange configured data with another CP5100 or a compatible SIMATIC Industrial Ethernet peer.

WinCC process displays

Supply the configured process values to the visualization application and validate its data mapping.

Network integration

Coordinate the IP address, subnet, router and application ports with the existing Industrial Ethernet network.

WinCC message handling

Transfer engineered message information using the matching communication configuration and application.

Process-computer integration

Exchange data with a compatible third-party peer using coordinated protocol, ports and telegram layout.

Application mapping

Retain the configured communication blocks, peer identity and telegram data layout.

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04 / Installation and release decisions

Module identity

Match 6DD1661-0AE0 and the CP5100 execution; preserve the installed hardware and configuration identity.

Network integration

Coordinate the IP address, subnet, router and application ports with the existing Industrial Ethernet network.

Application mapping

Retain the configured communication blocks, peer identity and telegram data layout.

Communication validation

Verify process data or WinCC display/message behavior at both ends after restoration.

Protect the hardware

Use the applicable isolation and electrostatic-discharge controls. Preserve connectors, identification and mechanical retention during handling.

Verify the restored function

Apply the approved site acceptance procedure and compare actual behavior with the recorded system configuration before returning equipment to service.

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05 / Lifecycle, evidence and related portfolio

Lifecycle status

The manufacturer lifecycle phase is End of Product Lifecycle. Plan service and any replacement around the complete installed configuration.

Supply boundary

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

Technical basis

Siemens 6DD1661-0AE0 product information; SIMATIC TDC User Guide; System and Communication Configuring D7-SYS, A5E01115023-04, 07/2009.

Related product references

Siemens 6DD1660-0BJ0

Siemens 6DD1688-0AE0

Siemens 6DD1640-0AD0

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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