6DD1660-0BJ0

01 / Product identity and control context

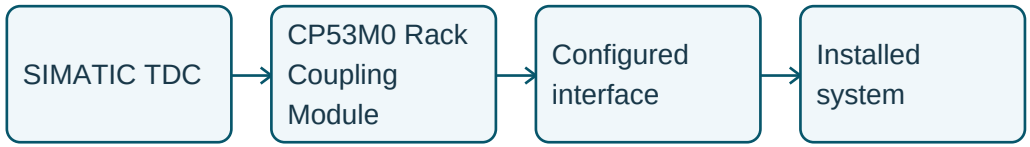
CP53M0 Rack Coupling Module

Siemens 6DD1660-0BJ0 is the CP53M0 communications module for coupling SIMATIC TDC and SIMADYN D racks.

Key characteristics

Product type	CP53M0 Rack Coupling Module
Product series	SIMATIC TDC
Module designation	CP53M0

Functional relationship



Rack role

Match the configured master/slave role and the complete CP53M0 order code.

Configuration boundary

Data applies to CP53M0 rack coupling. Interface usage and buffer operation depend on the configured rack role and application.

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	CP53M0
Coupling scope	SIMATIC TDC to SIMADYN D racks
Communication memory	128 KB SRAM
Buffer memory	8 MB SDRAM
Optical interfaces	2 in master mode; 1 in slave mode

Interfaces and operating conditions

Data rate	96 Mbit/s
Line coding	5B/6B
Typical 5 V consumption	0.3 A
Typical 3.3 V consumption	0.5 A
Typical power loss	3.1 W

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03 / Application and integration contexts

TDC-to-SIMADYN coupling

Exchange configured rack data between the two compatible control systems.

Legacy system expansion

Integrate a TDC rack into an engineered SIMADYN D expansion arrangement.

Optical coupling

Connect the correct rack peers and retain the original optical port allocation.

Master rack operation

Use the two optical interfaces according to the configured master role and peer topology.

Slave rack operation

Use the optical interface required by the slave role and validate its configured data exchange.

Power and data mapping

Check rack supply capacity and retain the application communication configuration.

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04 / Installation and release decisions

Rack role

Match the configured master/slave role and the complete CP53M0 order code.

Optical coupling

Connect the correct rack peers and retain the original optical port allocation.

Power and data mapping

Check rack supply capacity and retain the application communication configuration.

Coupling acceptance

Verify link diagnostics and the expected data exchange between the connected racks.

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 Product Cancellation. This execution is handled as a spare part; assess the existing rack coupling before selecting a replacement.

Supply boundary

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

Technical basis

Siemens 6DD1660-0BJ0 Product Data Sheet; SIMATIC ST 70, 2025, CP53M0 technical specifications.

Related product references

Siemens 6DD1661-0AE0

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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