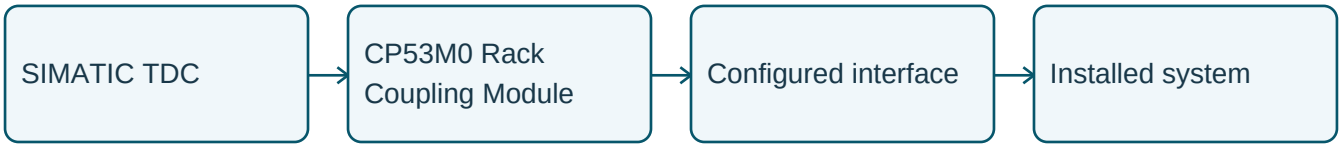
6DD1660-0BJ0

01 / System identity and preparation

Siemens 6DD1660-0BJ0 is the CP53M0 communications module for coupling SIMATIC TDC and SIMADYN D racks. The optical connection carries the configured rack-to-rack data exchange and supports expansion of an existing control arrangement. Its role is rack coupling, so it must be distinguished from an Industrial Ethernet or PROFIBUS communications module.



Preparation priorities

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.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application 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.

02 / Configuration review before service

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.

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.

Configured system behavior

The coupling hardware has 128 KB SRAM communication memory and 8 MB SDRAM buffer memory. Its optical interface configuration provides two interfaces in master mode or one in slave mode, with 96 Mbit/s data transmission and 5B/6B coding. The master/slave role and connected peer must agree with the rack configuration; optical connection alone does not define the application data mapping.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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03 / Hardware and interface checks

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.

Key hardware references

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

Configuration and service context

Typical consumption is 0.3 A from the 5 V supply and 0.5 A from 3.3 V, with typical power loss of 3.1 W. Assess the rack power budget and preserve the original optical port allocation and configured data exchange during replacement. Before releasing the restored system, verify the relevant rack roles, application data and diagnostics together rather than checking only physical link continuity.

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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04 / Commissioning and diagnostic decisions

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.

Acceptance checkpoints

Before energization	Connect the correct rack peers and retain the original optical port allocation.
Configuration review	Check rack supply capacity and retain the application communication configuration.
Functional release	Verify link diagnostics and the expected data exchange between the connected racks.

What must be validated beyond the optical link on 6DD1660-0BJ0?

Validate the configured rack roles, peer identity, application data mapping and diagnostic state.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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05 / Service record and technical references

Lifecycle and support

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

Technical basis

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

Applicability

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

Related portfolio references

Siemens 6DD1661-0AE0

Siemens 6DD1688-0AE0

Siemens 6DD1640-0AD0

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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