APTER POWER PRODUCT MANUAL

6DD1682-0CH0

SIMATIC TDC UR5213 21-Slot Subrack

The Siemens 6DD1682-0CH0 is the UR5213 subrack for SIMATIC TDC. It provides twenty-one module slots, the TDC backplane, mechanical support, power distribution, and the enclosure interfaces required by the configured control system.

The rack receives the matched PS5213 power supply and coordinates power and backplane communication for installed processor, communication, and signal modules in high-performance automation systems.

Manufacturer	Siemens
Prepared by	Apter Power
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1. Product Overview and Identity

The Siemens 6DD1682-0CH0 is the UR5213 subrack for SIMATIC TDC. It provides twenty-one module slots, the TDC backplane, mechanical support, power distribution, and the enclosure interfaces required by the configured control system.

The rack receives the matched PS5213 power supply and coordinates power and backplane communication for installed processor, communication, and signal modules in high-performance automation systems.

Model Configuration

Field	Verified information
Complete model	6DD1682-0CH0
Manufacturer	Siemens
Product description	SIMATIC TDC UR5213 21-Slot Subrack

Key Features

- Exact 6DD1682-0CH0 identity retained
- Manufacturer-source data separated from unconfirmed values
- UR5213
- System context: SIMATIC TDC
- Model-specific lifecycle and installation guidance

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Subrack	UR5213
Slots	21
Input supply with matched PSU	90 to 264 V AC, 47 to 63 Hz
Documented DC rails	+5 V, +3.3 V, +12 V, -12 V
Power-failure backup	At least 15 ms
Protection	IP20; protection class I with PE
Operating temperature	0 to 55 degrees C
Approximate dimensions	482.6 x 354.9 x 343 mm
Approximate weight	20 kg

Verification Note

Use the complete 6DD1682-0CH0 identity. The current Siemens SIMATIC TDC hardware manual lists UR5213 article 6DD1682-0CH0. Confirm availability and module approvals for the exact system revision. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- The rack receives the matched PS5213 power supply and coordinates power and backplane communication for installed processor, communication, and signal modules in high-performance automation systems.
- Maintains the documented SIMATIC TDC system role for this exact identity.
- Provides an exact reference for engineering, maintenance, and quotation review.

Application Areas

Application	System role
Multi-processor TDC systems	House coordinated CPU, communication, and I/O modules.
Large drive-control cabinets	Provide the mechanical and electrical system backbone.
Process test stands	Support dense real-time module configurations.

Compatible Components

- SIMATIC TDC modules permitted for the UR5213 slot plan
- PS5213 power supply article 6DD1683-0CH0
- Cabinet cooling, PE, backplane, and EMC arrangement specified by Siemens

Lifecycle Status

The current Siemens SIMATIC TDC hardware manual lists UR5213 article 6DD1682-0CH0. Confirm availability and module approvals for the exact system revision.

4. Installation Precautions

- Connect protective earth as specified before energization
- Check total module loading against every supply rail
- Maintain cabinet airflow and clearances
- Use the approved slot plan and blanking arrangements
- Remove power before inserting or removing modules

STOP - Verify before installation
Use the complete 6DD1682-0CH0 identity. The current Siemens SIMATIC TDC hardware manual lists UR5213 article 6DD1682-0CH0. Confirm availability and module approvals for the exact system revision. Values not published in the cited Siemens source are intentionally not inferred.
Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens SIMATIC TDC Hardware System Manual, UR5213 technical data and installation sections.

Apter Power product page

https://www.apterpower.com/Siemens/6DD1682-0CH0

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.