Siemens TI435-CPU
Complete Product Information

PRODUCT OVERVIEW

Product	TI435-CPU
Type	PLC Central Processing Unit
Platform	SIMATIC TI 405
Primary role	central processing unit

KEY CAPABILITIES

Capability 1 Provides the central processing unit function.	Capability 2 Integrates with the SIMATIC TI 405 platform.
Capability 3 Retains the assigned signal or communication path.	Capability 4 Uses the complete TI435-CPU identity for replacement control.

WHERE IT FITS

Installed-base maintenance Restore the assigned central processing unit position without changing the surrounding system design.	Loop and channel service Retain terminal assignments, scaling and channel ownership during controlled replacement.
Fault isolation Separate module, field wiring and configuration causes during troubleshooting.	Commissioning Prove the complete signal path before returning the process to service.

ApterPower product support
Scan for model-specific assistance.

Capabilities at a glance

PRODUCT PARAMETERS

Alternate identifier	435-CPU
System family	SIMATIC TI 405
Module role	PLC CPU
Programming family	DirectSOFT compatible
Communication connectors	15-pin upper; 25-pin lower
Supported protocols	DirectNET, K-sequence and Modbus by port configuration
Configuration basis	Preserve assigned settings
Acceptance focus	Confirm end-to-end response

CAPABILITY INTERPRETATION

Capability 1	Provides the central processing unit function. This supports the assigned SIMATIC TI 405 maintenance strategy.
Capability 2	Integrates with the SIMATIC TI 405 platform. This supports the assigned SIMATIC TI 405 maintenance strategy.
Capability 3	Retains the assigned signal or communication path. This supports the assigned SIMATIC TI 405 maintenance strategy.
Capability 4	Uses the complete TI435-CPU identity for replacement control. This supports the assigned SIMATIC TI 405 maintenance strategy.

SYSTEM RELATIONSHIP

Upstream Field source or system command assigned to the central processing unit function.	Product role TI435-CPU performs its configured function inside SIMATIC TI 405.
Downstream Receiving channel, field device or operator interface.	Supervision Diagnostics, alarms and process indications confirm healthy operation.

Applications and operating context

COMMON APPLICATIONS

Installed-base maintenance Restore the assigned central processing unit position without changing the surrounding system design.	Loop and channel service Retain terminal assignments, scaling and channel ownership during controlled replacement.
Fault isolation Separate module, field wiring and configuration causes during troubleshooting.	Commissioning Prove the complete signal path before returning the process to service.

OPERATIONAL WORKFLOW

Normal operation	TI435-CPU maintains the assigned central processing unit path.
Inspection	Review physical condition, status and process indications.
Fault isolation	Separate field, connection, module and configuration causes.
Replacement	Match the complete identity and restore retained interfaces.
Commissioning	Prove static and dynamic response under controlled conditions.
Return to service	Remove bypasses after alarms and process behavior are accepted.

SERVICE PLANNING

People Controls, electrical and operations roles defined.	Information Marking, configuration and connection map available.
Hardware Correct replacement, tools and test equipment prepared.	Process Isolation, test and release windows approved.

Model-specific questions

FAQ

What is Siemens TI435-CPU designed to do?	It provides the central processing unit function for SIMATIC TI 405.
How is Siemens TI435-CPU integrated into the control system?	It occupies the assigned SIMATIC TI 405 position and retains the surrounding interfaces.
Which module role is specified for Siemens TI435-CPU?	Module role: PLC CPU.
What should be checked about the programming family on Siemens TI435-CPU?	Confirm DirectSOFT compatible before energization.
Which communication connectors belongs to Siemens TI435-CPU?	The applicable value is 15-pin upper; 25-pin lower.
How should technicians preserve the supported protocols of Siemens TI435-CPU?	Record and restore DirectNET, K-sequence and Modbus by port configuration.
Which acceptance test applies after Siemens TI435-CPU is installed?	Verify the static state, controlled dynamic response and final SIMATIC TI 405 status.
What must match before Siemens TI435-CPU returns to service?	The model marking, installed position, connections, configuration and end-to-end response must all agree.

MAINTENANCE DECISIONS

Keep in service	Status and end-to-end response remain stable.
Investigate	Intermittent value, diagnostic or connector condition appears.
Replace	Confirmed product fault persists after field and configuration checks.
Escalate	Identity, compatibility or process consequence remains unclear.

SUCCESSFUL OUTCOME

Identity Exact model and installed position agree.	Connections Every assigned interface is restored.
Configuration All retained settings are active.	Response The process and diagnostic path pass testing.

Precautions and selection

EIGHT PRODUCT PRECAUTIONS

1	Confirm the complete Siemens TI435-CPU marking before removal.
2	Place the affected SIMATIC TI 405 function in its approved maintenance state.
3	Record terminals, connectors and installed orientation before disconnection.
4	Retain channel assignments, scaling and communication settings.
5	Inspect mating contacts and terminal hardware for damage or contamination.
6	Restore shields, commons and protective grounding exactly as assigned.
7	Energize under controlled conditions and review module status.
8	Verify the end-to-end process response before release.

RELATED SIEMENS PRODUCT PAGES

Siemens 6AV3627-1QL00-0AX0	https://www.apterpower.com/Siemens/Siemens-Simatic-HMI/6av3627-1ql00-0ax0
Siemens 6ES5756-0AA11	https://www.apterpower.com/Siemens/Siemens-Simatic-S5/6es5756-0aa11

FINAL PRODUCT SUMMARY

Model	TI435-CPU
Family	SIMATIC TI 405
Function	central processing unit
Selection basis	Complete identity, interfaces and configured function
Installation basis	Saved connections and controlled configuration
Release basis	Verified mechanical, electrical, logical and process response