

APTER POWER PRODUCT MANUAL

505-7003

Siemens SIMATIC TI505 High-Speed Counter/Encoder Module

505-7003 is a Siemens SIMATIC TI505 High-Speed Counter/Encoder Module. It is a single-wide TI505 I/O module that receives fast counter or encoder inputs and makes the resulting count and status information available to the controller for machine-sequence and position-related logic.

The module is applied with compatible TI505 bases, field wiring, sensors or encoders, and controller software in packaging, material-handling, converting, and other discrete-automation machines requiring pulse counting or position feedback.

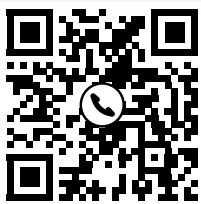
Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Count Fast. Track Motion. Keep TI505 Logic Moving.

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505-7003

1. Product Overview and Identity

505-7003 is a Siemens SIMATIC TI505 High-Speed Counter/Encoder Module. It is a single-wide TI505 I/O module that receives fast counter or encoder inputs and makes the resulting count and status information available to the controller for machine-sequence and position-related logic.

The module is applied with compatible TI505 bases, field wiring, sensors or encoders, and controller software in packaging, material-handling, converting, and other discrete-automation machines requiring pulse counting or position feedback.

Model Configuration

Field	Verified information
Complete model	505-7003
Manufacturer	Siemens
Product description	Siemens SIMATIC TI505 High-Speed Counter/Encoder Module

Key Features

- Dedicated high-speed counting in a TI505 I/O slot
- Encoder-oriented pulse acquisition
- Controller-accessible count and status data
- Single-wide module construction
- Official module-specific Siemens user manual

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
Manufacturer	Siemens
Product family	SIMATIC TI505
Module type	High-Speed Counter/Encoder Module
Order number	PPX:505-7003
Mechanical format	Single-wide TI505 I/O module
Primary signal type	High-speed counter or encoder pulse inputs
Lifecycle context	Legacy TI505 hardware

Verification Note

Use the complete 505-7003 identifier. 505-7003 belongs to the legacy SIMATIC TI505 platform. Confirm current availability and approved migration options with Siemens or Apter Power. Unpublished values are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- Counts high-speed field pulses
- Processes encoder feedback according to the configured mode
- Transfers count and status information to the TI505 controller
- Supports machine logic based on motion or event counts

Application Areas

Application	System role
Packaging machinery	Count products, indexes, or encoder pulses
Material handling	Track movement and sequence events
Converting equipment	Use encoder feedback for length or position logic
Legacy TI505 lines	Maintain the original controller architecture

Compatible Components

- SIMATIC TI505 bases that support the module
- Compatible encoders or pulse sources wired per the Siemens manual
- TI505 controller and programming configuration
- Field terminal and wiring arrangement specified for 505-7003

Lifecycle Status

505-7003 belongs to the legacy SIMATIC TI505 platform. Confirm current availability and approved migration options with Siemens or Apter Power.

4. Installation Precautions

- Verify input wiring and signal levels against PPX:505-8127-1
- De-energize the base before insertion or removal
- Maintain shield and grounding practices for encoder wiring
- Confirm slot and software configuration before startup
- Do not reuse settings from a different TI505 counter module

STOP - Verify before installation

Use the complete 505-7003 identifier. 505-7003 belongs to the legacy SIMATIC TI505 platform. Confirm current availability and approved migration options with Siemens or Apter Power. Unpublished values 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 TI505 High Speed Counter User Manual, order number PPX:505-8127-1, covering module PPX:505-7003.

Apter Power product page

<https://www.apterpower.com/Siemens/505-7003>

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.