



3506X

Triconex 32-Point Supervised Digital Input Module

Product scope

- Monitors thirty-two supervised 24 VDC digital inputs.
- Provides 1 ms sequence-of-events resolution.
- Uses TMR processing with online force-to-value diagnostics.
- The configured part is the 3506X supervised input module for Tricon CX expansion hardware.

Official source basis

Schneider Electric, Tricon CX Planning and Installation Guide, 3506X Digital Input Module Specifications.

Technical facts are limited to the identified manufacturer documentation and the exact ordering configuration shown above.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Triconex 3506X	

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3506X technical profile

Triconex 3506X combines thirty-two 24 VDC input channels with line supervision for Tricon CX. Three independent measurement paths process each point and deliver voted state information to the safety application.

Force-to-value diagnostics exercise the input path, while one-millisecond SOE resolution supports detailed event chronology. External end-of-line resistors allow the module to distinguish field wiring conditions when the approved termination design is used.

This X-series module installs only in a supported Tricon CX expansion chassis. Verify 0–28.8 VDC service, 2.7 k Ω input impedance, 1.69 k Ω end-of-line resistors and the correct external termination panel before commissioning.

Selection notice

3506X is limited to Tricon CX expansion chassis; verify both 1.69 k Ω end-of-line resistors and field polarity before enabling supervision.

Technical specifications

Input points	32
Input architecture	TMR supervised
Recommended range	0 to 28.8 VDC
Maximum overvoltage	32 VDC
Input impedance	2.7 k Ω nominal
Input delay	Less than 3 ms
SOE resolution	1 ms
Channel isolation	400 Vrms
Module power	Less than 8 W
EOL resistors	Two external 1.69 k Ω , 1%
Diagnostic method	Force-to-value
Installation	Tricon CX expansion chassis only
Input state processing	Voted
Field termination	External termination panel
Hot replacement	Per Tricon CX maintenance procedure
Operating temperature	0 to 60 °C
Storage temperature	-40 to 85 °C
Relative humidity	5 to 95%, non-condensing
Installation environment	Industrial control enclosure

Application and integration notes

Diagnostics	• Force-to-value tests confirm the ability of each input path to change state. • Line supervision uses external end-of-line resistors to identify wiring abnormalities. • One-millisecond SOE time stamps support event reconstruction after a process demand.
Configuration & Programming	• Input thresholds and supervision behavior are defined in the supported Tricon CX project. • The termination design uses two 1.69 kΩ one-percent external resistors per supervised point. • SOE collection is enabled only for the channels selected by the application configuration.
Operating Environment	• The module is installed only in a Tricon CX expansion chassis inside an industrial enclosure. • Published accuracy and current limits assume the documented 0–60 °C operating range. • Field cabling must respect the specified channel isolation and enclosure grounding practice.

Request product documentation and quotation support

Send the complete label, system configuration, quantity and destination.



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