

INDUSTRIAL AUTOMATION PRODUCT

T8431CX

Analog Input Module

ICS Triplex T8431CX is a Trusted CCoat triplicated analog input module with 40 channels for 4-20 mA signal acquisition. Its non-RoHS configuration is documented for the Trusted safety platform.

IDENTITY	VERIFIED VALUE
Manufacturer	ICS Triplex
Complete model	T8431CX
Product role	Analog Input Module
System family	Trusted CCoat safety platform
Country of origin	USA

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



T8431CX

Technical Specifications

PARAMETER	VERIFIED VALUE
Catalog number	T8431CX
Module type	Trusted CCoat analog input
Input signal	4-20 mA
Input channels	40
Architecture	Triplicated / TMR
Coating/configuration	CCoat
RoHS status	Non-RoHS
Lifecycle	Discontinued
Replacement catalog	T8431C
UPC	194033588434
Safety evidence	IEC 61508 / TÜV report 968/FSP 1643.04/20

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Record the T8431CX module revision, chassis slot, field termination and configured channel assignments before replacement. Verify all 40 analog channels, triplicated diagnostics and the approved safety-system test record before returning the system to service.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete T8431CX catalog number, revision and intended Trusted chassis slot.
2	Isolate the approved process and safety circuits before removing the module.
3	Record all 40 channel assignments, 4-20 mA loop wiring and field termination references.
4	Use ESD controls and protect the CCoat module and rear connector from contamination or impact.
5	Confirm the non-RoHS configuration and approved replacement path before substituting T8431C.

System Role and Architecture

ICS Triplex T8431CX is a Trusted CCoat triplicated analog input module with 40 channels for 4-20 mA signal acquisition. Its non-RoHS configuration is documented for the Trusted safety platform.

FUNCTION 1
Forty 4-20 mA analog input channels

FUNCTION 2
Triplicated/TMR processing for Trusted safety systems

FUNCTION 3
CCoat conformal-coated configuration

FUNCTION 4
Non-RoHS catalog configuration

Common Applications

APPLICATION	ENGINEERING CONTEXT
Triplicated process inputs	Acquires four-to-twenty milliampere process signals for a documented Trusted safety application.
Critical analog monitoring	Provides 40 channels for redundant process-variable monitoring and diagnostic comparison.
CCoat installations	Supports conformal-coated hardware selections where the approved system bill of materials requires CCoat.
Controlled module replacement	Uses recorded slot, termination and channel assignment data for a controlled maintenance change.

CONTROLLED ACCEPTANCE DUTY
Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete T8431CX catalog number, revision and intended Trusted chassis slot.
2	Isolate the approved process and safety circuits before removing the module.
3	Record all 40 channel assignments, 4-20 mA loop wiring and field termination references.
4	Use ESD controls and protect the CCoat module and rear connector from contamination or impact.
5	Confirm the non-RoHS configuration and approved replacement path before substituting T8431C.
6	Check triplicated channel diagnostics and signal plausibility against the current safety record.
7	Restore the approved configuration and document any channel or termination change.
8	Complete controlled analog-input and safety-function tests before service release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
How many analog inputs are provided by ICS Triplex T8431CX?	The T8431CX record identifies 40 analog input channels.
What signal range is documented for ICS Triplex T8431CX?	The catalog record identifies 4-20 mA analog input signals.
Why is ICS Triplex T8431CX described as triplicated?	The Trusted input architecture uses triplicated processing so the safety application can compare channel-slice results and diagnostics.
What does CCoat identify on ICS Triplex T8431CX?	CCoat identifies the conformal-coated configuration listed for this Trusted module variant.

Model-Specific FAQ - Part 2

QUESTION	ANSWER
Is ICS Triplex T8431CX a RoHS configuration?	The official Rockwell product record identifies T8431CX as non-RoHS.
What catalog is listed as the replacement for ICS Triplex T8431CX?	Rockwell lists T8431C as the replacement catalog for the discontinued T8431CX record.
Which safety evidence is associated with ICS Triplex T8431CX?	The official Trusted certificate ICSTT-CT021 identifies T8431CX in TÜV report 968/FSP 1643.04/20 under the stated certification scope.
What must be proved after replacing ICS Triplex T8431CX?	Record identity and wiring, then prove all configured 4-20 mA channels, triplicated diagnostics and the approved safety function before release.

Related Products on Apter Power

MODEL	APTER POWER PAGE
ICS Triplex T8431C	View ICS Triplex T8431C
ICS Triplex T8461CX	View ICS Triplex T8461CX
ICS Triplex T8850C	View ICS Triplex T8850C
ICS Triplex T8830	View ICS Triplex T8830
ICS Triplex T8800	View ICS Triplex T8800
ICS Triplex T9300	View ICS Triplex T9300
ICS Triplex T9852	View ICS Triplex T9852
ICS Triplex T8110B	View ICS Triplex T8110B

MANUFACTURER SOURCE RECORD

Trusted CCoat 4-20 mA 40-Channel Analog Input Module Product Record
Rockwell Automation T8431CX product page; Trusted safety certificate ICSTT-CT021, report 968/FSP 1643.04/20

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



T8431CX