

Installation Identity and Scope

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	T8431CX
Manufacturer	ICS Triplex
Hardware type	Analog Input Module
System family	Trusted CCoat safety platform
Official source	Rockwell Automation T8431CX product page; Trusted safety certificate ICSTT-CT021, report 968/FSP 1643.04/20

CONTROLLED ENGINEERING COPY

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.

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T8431CX

Pre-Installation Plan

NO.	REQUIRED ACTION
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.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	T8431CX
Physical interface	Trusted controller or expander chassis slot
Companion check	Approved 40-channel field termination and 4-20 mA loops
Configuration	Recorded channel assignments and triplicated diagnostics
Functional proof	Controlled analog-input and safety-function test

RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record T8431CX, revision and serial number.
Slot	Confirm the intended Trusted chassis slot and module position.
Field wiring	Verify each configured 4-20 mA loop and its termination reference.
Diagnostics	Confirm triplicated channel diagnostics are clear.
Configuration	Restore the approved channel assignment and scaling record.
Functional proof	Prove representative inputs and the approved safety response.

CONFIGURATION 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.

Expected Technical Values

PARAMETER	VALUE
Catalog number	T8431CX
Module type	Trusted CCoat analog input
Input signal	4-20 mA
Input channels	40

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	T8431CX, revision and serial number are recorded.
Inputs	All commissioned 4-20 mA channels match the approved field test.
Diagnostics	No unexplained triplicated channel or wiring fault remains.
Safety release	The approved safety function and maintenance record are signed off.

Technical Questions to Resolve

QUESTION	ENGINEERING 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.

Source, Related Products and Release

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

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	T8431CX recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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