

1769-IQ32T

Compact 32-Point DC Input Module

Allen-Bradley 1769-IQ32T is a single-wide Compact I/O module with 32 terminated 24 VDC sink/source inputs. The inputs are arranged as four isolated groups of eight points.

BRAND	Allen-Bradley	MODEL	1769-IQ32T
PRODUCT	Compact 32-Point DC Input Module	FAMILY	Bulletin 1769 Compact I/O
OFFICIAL SOURCE	Rockwell Automation 1769 Compact I/O Modules Specifications	RECORD	1769-TD006H-EN-P, 1769-IQ32T technical specifications

DOCUMENT SCOPE

Official technical evidence, controlled engineering checks, model-specific FAQ and related product navigation.

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Product Overview and Applications

SYSTEM FUNCTION

Allen-Bradley 1769-IQ32T is a single-wide Compact I/O module with 32 terminated 24 VDC sink/source inputs. The inputs are arranged as four isolated groups of eight points.

FUNCTION 1

Provides 32 terminated sink/source DC inputs

FUNCTION 2

Uses four isolated groups of eight points

FUNCTION 3

Supports selectable input filtering

FUNCTION 4

Fits a single-wide Bulletin 1769 module position

APPLICATION	ENGINEERING CONTEXT
High-density DC sensing	Collects 32 field-status signals in a Compact I/O system.
Machine interlocks	Maps 24 VDC limit, presence and permissive contacts to the controller.
Panel consolidation	Uses the terminated single-wide design to reduce cabinet wiring space.
Legacy I/O replacement	Restores an identical IQ32T channel map after wiring verification.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
I/O family	Bulletin 1769 Compact I/O
Input points	32 terminated, 8 points per group
Voltage category	24 VDC sink/source
Operating range	20.4 to 26.4 VDC at 60 °C
Bus current	170 mA at 5 VDC
Nominal impedance	5.6 kohm
Isolated groups	Four groups: inputs 0–7, 8–15, 16–23 and 24–31
Digital filter	Selectable 0, 100 µs, 500 µs, 1, 2, 4 or 8 ms
Power-supply distance rating	8

Acceptance Path

1 IDENTITY

The complete 1769-IQ32T marking and revision agree with the engineering record.

2 COMPATIBILITY

System position, companion hardware and interfaces match the manufacturer documentation.

3 CONFIGURATION

Saved values, channel mappings and protection limits are restored without unexplained change.

4 FUNCTIONAL PROOF

Diagnostics and the model-specific controlled test pass without unexplained fault.

Precautions and Model-Specific FAQ

NO.	PRECAUTION	QUESTION	ANSWER
1	Verify the complete 1769-IQ32T catalog number and series.	What is Allen-Bradley 1769-IQ32T?	It is a single-wide Compact I/O module with 32 terminated 24 VDC sink/source inputs.
2	Remove field power and Compact Bus power before insertion or removal.		
3	Confirm 20.4 to 26.4 VDC field supply for the installed temperature condition.	How are Allen-Bradley 1769-IQ32T inputs grouped?	The 32 points are divided into four isolated groups of eight inputs.
4	Preserve the four input-group common connections and sink/source polarity.		
5	Label all 32 input circuits before disconnection.	What field-voltage range applies to Allen-Bradley 1769-IQ32T?	Rockwell Automation specifies 20.4 to 26.4 VDC at 60 °C.
6	Keep the module within the documented power-supply distance rating of 8.	Which digital filters are available for Allen-Bradley 1769-IQ32T?	The module supports 0, 100 µs, 500 µs, 1 ms, 2 ms, 4 ms and 8 ms selections.
7	Restore the configured input filters and controller channel map.		
8	Test every enabled input and group-isolation arrangement before release.		

Related Products on Apter Power

MODEL	APTER POWER PAGE
Allen Bradley 150-F135NBDB	View Allen Bradley 150-F135NBDB
Allen Bradley 1503VC-BMC4	View Allen Bradley 1503VC-BMC4
Allen Bradley 1503VC-BMC5	View Allen Bradley 1503VC-BMC5
Allen Bradley 1503VC-BMC5-MC1	View Allen Bradley 1503VC-BMC5-MC1
Allen Bradley 1715-TASOF8	View Allen Bradley 1715-TASOF8
Allen Bradley 1734-4IOL	View Allen Bradley 1734-4IOL

FAQ, Related Products and Sources

QUESTION	ANSWER
What is the power-supply distance rating for Allen-Bradley 1769-IQ32T?	The published distance rating is 8 modules.
What must be preserved before replacing Allen-Bradley 1769-IQ32T?	Preserve the 32-point map, group commons, polarity, filter settings and controller configuration.
What confirms successful commissioning of Allen-Bradley 1769-IQ32T?	Correct indication and controller state for every enabled input, with no group wiring fault, confirm release.

MANUFACTURER SOURCE RECORDS

Rockwell Automation 1769 Compact I/O Modules Specifications - 1769-TD006H-EN-P, 1769-IQ32T technical specifications
Rockwell Automation 1769-IQ32T Installation Instructions - 1769-IN072A-EN-P

Related Products on Apter Power

MODEL	APTER POWER PAGE
Allen Bradley 1734-AENTR	View Allen Bradley 1734-AENTR
Allen Bradley 1734-IB8-D	View Allen Bradley 1734-IB8-D
Allen Bradley 1734-IR2	View Allen Bradley 1734-IR2
Allen Bradley 1756-DHRIO	View Allen Bradley 1756-DHRIO
Allen Bradley 1756-IV32	View Allen Bradley 1756-IV32
Allen Bradley 1756-L1M2	View Allen Bradley 1756-L1M2
Allen Bradley 1756-L55M12	View Allen Bradley 1756-L55M12
Allen Bradley 1756-L55M13	View Allen Bradley 1756-L55M13

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