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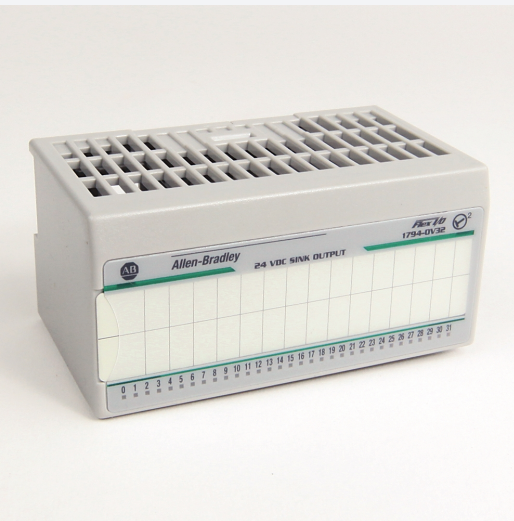
Data Sheet

August 13, 2026

ROCKWELL / ALLEN-BRADLEY

Rockwell / Allen-Bradley 1794-OB16P FLEX I/O 24VDC 16 Protected Source Output Module

Key Features - 16 sourcing protected outputs, 0.5 A each, 8 A module - 10-31.2 Vdc; 0.5 V drop at 0.5 A - Thermal shutdown auto-reset; no processor fault feedback - Terminal bases 1794-TB3 / TB3S / TB3K / TB3SK Technical Specifications Model: 1794-OB16P Manufacturer: Allen-Bradley / Rockwell Automation Instrument Type: FLEX Discrete Output Module Series: 1794 FLEX I/O Alias: 1794-OB16P; 1794OB16P UPC: 612598179961 Outputs: 16 sourcing, electronically protected Nominal Voltage: 24 Vdc On State Voltage Range: 10 to 31.2 Vdc Current Per Channel Max: 500 mA Current Per Module Max: 8 A On State Current Min: 2.0 mA per channel On State Drop Max: 0.5 Vdc at 0.5 A Off State Leakage Max: 0.



MODEL

Rockwell / Allen-Bradley 1794-OB16P

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1794-OB16P

LISTING

<https://aumictechlabs.com/products/1794-ob16p-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rockwell / Allen-Bradley 1794-OB16P is a FLEX I/O output module that delivers 16 protected source outputs at 24V DC. Designed for industrial automation and process control, each output incorporates individual overcurrent and short-circuit protection to prevent cascading failures and maintain system integrity. The module integrates directly into the FLEX I/O distributed I/O

architecture, enabling flexible control of DC-powered actuators and field devices in complex manufacturing environments.

Technical Specifications

Module Type: Output Module

Output Configuration: 16 Protected Source Outputs

Nominal Output Voltage: 24V DC

System: FLEX I/O compatible

Protection: Overcurrent and short-circuit protection per output

Output Isolation: Digital outputs isolated from logic-side electronics

Key Features

Per-channel protection eliminates single-point failure modes. Short-circuit and overcurrent events on one output do not affect remaining channels. Internal current limiting safeguards connected loads and extends output module lifespan. Isolated output stage provides noise immunity in electrically harsh plant environments. Direct FLEX I/O backplane integration simplifies distributed control architecture deployment.

Output Performance

ON-state output resistance contributes to predictable voltage regulation across load variations. OFF-state leakage current minimization supports precision control applications. Switchable output frequency capability enables real-time device actuation and feedback control. Surge current handling accommodates inductive load transients from solenoids and motor starters.

Typical Applications

DC solenoid valve and motor starter control
Distributed process automation networks
Manufacturing machine tool interfaces
Chemical and pharmaceutical production systems
Remote I/O in geographically dispersed facilities

Compatibility & Integration

The 1794-OB16P operates within the Allen-Bradley FLEX I/O ecosystem, interfacing directly with standard backplane configurations. Modular design permits mixed input and output stack arrangements to match specific control requirements. Backplane current consumption and detailed electrical characteristics are available in the product technical documentation.

Features & description

From manufacturer datasheet

Features

- 16 sourcing protected outputs, 0.5 A each, 8 A module

1794OB16P Characteristics / Specifications

PARAMETER	VALUE
Model	1794-OB16P
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	FLEX Discrete Output Module
Series	1794 FLEX I/O
Alias	1794-OB16P; 1794OB16P
UPC	612598179961
Outputs	16 sourcing, electronically protected
Nominal Voltage	24 Vdc
On State Voltage Range	10 to 31.2 Vdc
Current Per Channel Max	500 mA
Current Per Module Max	8 A
On State Current Min	2.0 mA per channel
On State Drop Max	0.5 Vdc at 0.5 A
Off State Leakage Max	0.5 mA
Surge Current	2 A for 50 ms, repeatable every 2 s
Short Circuit Protection	thermal shutdown, auto reset
Fault Feedback	none to the processor (clears when fault is removed)
Terminal Base	1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK
Flexbus Current	60 mA at 5 Vdc
External DC Supply	10 to 31.2 Vdc (5% AC ripple)
Power Dissipation Max	5.0 W at 31.2 Vdc
Isolation	50 V continuous I/O to system; no channel-to-channel isolation
Operating Temperature	0 to 55 C (32 to 131 F)
Compared OB	non-P version requires external fuses
Country Listing	Singapore on some RA pages

PARAMETER	VALUE
Warranty Listing	1 year standard RA
Indicators	per-point status LEDs
Mounting	snaps onto 1794 terminal base Notes Specs from Rockwell 1794-OB16P product page and FLEX digital DC protected output module technical data. Confirm TB3 family base and 8 A module budget.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C (32 to 131 F)
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Compared OB	non-P version requires external fuses
Country Listing	Singapore on some RA pages
Warranty Listing	1 year standard RA
Indicators	per-point status LEDs
Mounting	snaps onto 1794 terminal base Notes Specs from Rockwell 1794-OB16P product page and FLEX digital DC protected output module technical data. Confirm TB3 family base and 8 A module budget.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	1794-0B16P
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	FLEX Discrete Output Module
Specifications	
PARAMETER	VALUE
Series	1794 FLEX I/O
Alias	1794-0B16P; 17940B16P
UPC	612598179961
Specifications	
PARAMETER	VALUE
Outputs	16 sourcing, electronically protected
Nominal Voltage	24 Vdc
On State Voltage Range	10 to 31.2 Vdc
Specifications	
PARAMETER	VALUE
Current Per Channel Max	500 mA
Current Per Module Max	8 A
On State Current Min	2.0 mA per channel
Specifications	
PARAMETER	VALUE
On State Drop Max	0.5 Vdc at 0.5 A
Off State Leakage Max	0.5 mA
Surge Current	2 A for 50 ms, repeatable every 2 s

Specifications

PARAMETER	VALUE
Short Circuit Protection	thermal shutdown, auto reset
Fault Feedback	none to the processor (clears when fault is removed)
Terminal Base	1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK

Specifications

PARAMETER	VALUE
Flexbus Current	60 mA at 5 Vdc
External DC Supply	10 to 31.2 Vdc (5% AC ripple)
Power Dissipation Max	5.0 W at 31.2 Vdc

Specifications

PARAMETER	VALUE
Isolation	50 V continuous I/O to system; no channel-to-channel isolation
Operating Temperature	0 to 55 C (32 to 131 F)
Compared 0B16	non-P version requires external fuses

Country Listing: Singapore on some RA pages

Warranty Listing: 1 year standard RA

Indicators: per-point status LEDs

Mounting: snaps onto 1794 terminal base

Notes

Specs from Rockwell 1794-0B16P product page and FLEX digital DC protected output module technical data.
Confirm TB3 family base and 8 A module budget.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.