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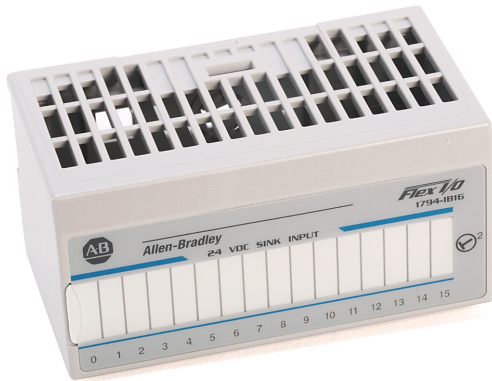
Data Sheet

August 13, 2026

ROCKWELL / ALLEN-BRADLEY

Rockwell / Allen-Bradley 1794-IB16 FLEX I/O 24 VDC 16 Sink Input Module

Key Features - 16 sinking 24 Vdc inputs - 10-31.2 Vdc on-state - 8.2 mA nom at 24 V; 12.1 mA max at 31.2 V - Use 1794-TB32 / TB32S terminal bases Technical Specifications Model: 1794-IB16 Manufacturer: Allen-Bradley / Rockwell Automation Instrument Type: FLEX Discrete Input Module Series: 1794 FLEX I/O Alias: 1794-IB16; 1794IB16 Inputs: 16 sinking On State Voltage Min: 10 Vdc On State Voltage Nom: 24 Vdc On State Voltage Max: 31.2 Vdc Off State Voltage Max: 5.0 Vdc On State Current Nom: 8.2 mA at 24 Vdc On State Current Max: 12.1 mA at 31.2 Vdc Terminal Base: 1794-TB32, 1794-TB32S Input Impedance Max: 3.1 kohm Power Dissipation Max: 8.5 W at 31.2 Vdc Thermal Dissipation Max: 29 BTU/hr at 31.



MODEL

Rockwell / Allen-Bradley 1794-IB16

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1794-IB16

LISTING

<https://aumictechlabs.com/products/1794-ib16-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rockwell Automation / Allen-Bradley 1794-IB16 is a FLEX I/O 16-channel digital input module that interfaces 24 VDC sinking input signals directly to a programmable logic controller. Operating across the 10 to 31.2 VDC input range, the module delivers real-time discrete signal acquisition with per-channel LED diagnostics. Each input channel carries a nominal load of 8.0 mA at 24 V DC, with configurable on-state thresholds from 10 to 31.2 VDC and off-state maximum of 5

VDC. Thermal output reaches 11.9 BTU/hr at maximum rated voltage. The module mounts via DIN-rail to a required TB3/TB3S terminal base using screw terminal connections. Three network protocols ControlNet, DeviceNet, and EtherNet/IP - enable integration into diverse industrial automation architectures. Rated for 0 to 55 °C operating temperature and 5 to 95% non-condensing humidity, the module withstands 5 g vibration (10–500 Hz) and 30 g operating shock. Not rated for safety-critical applications.

Technical Specifications

Input Channels: 16 sinking inputs
Nominal Voltage: 24 VDC Input Range: 10 to 31.2 VDC On-State Current: 2.0 to 12.0 mA (8.0 mA nominal @ 24 V DC) On-State Voltage: 10 to 31.2 VDC Off-State Voltage: Maximum 5 VDC Off-State Current: Maximum 1.5 mA Input Impedance: 4.6 kΩ nominal Flexbus Current Draw: 30 mA @ 5 V DC Max Power Dissipation: 6.1 W @ 31.2 V DC Thermal Output: 11.9 BTU/hr @ 31.2 V DC Operating Temperature: 0 to 55 °C Storage Temperature: -40 to 85 °C Humidity (Non-Condensing): 5 to 95% Vibration: 5 g from 10 to 500 Hz Operating Shock: 30 g peak (11±1 ms pulse)

Key Features 16 individual LED status indicators for channel-level diagnostics Screw terminal connectivity via TB3/TB3S base Multi-protocol support (ControlNet, DeviceNet, EtherNet/IP) DIN-rail and panel mounting capability Broad input voltage tolerance from 10 to 31.2 VDC

Typical Applications Discrete sensor input acquisition, industrial process control, machine automation, and networked I/O expansion in Allen-Bradley PLC environments.

Compatibility & Integration Designed for FLEX I/O architecture with support for ControlNet, DeviceNet, and EtherNet/IP communication adapters. Requires TB3/TB3S terminal base. Certifications include CE, CSA, CUL, UL, C-TICK, KC, GOST, and MARINE.

1794IB16 Characteristics / Specifications

PARAMETER	VALUE
Model	1794-IB16
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	FLEX Discrete Input Module
Series	1794 FLEX I/O
Alias	1794-IB16; 1794IB16
Inputs	16 sinking
On State Voltage Min	10 Vdc
On State Voltage Nom	24 Vdc
On State Voltage Max	31.2 Vdc
Off State Voltage Max	5.0 Vdc
On State Current Nom	8.2 mA at 24 Vdc
On State Current Max	12.1 mA at 31.2 Vdc
Terminal Base	1794-TB32, 1794-TB32S
Input Impedance Max	3.1 kohm
Power Dissipation Max	8.5 W at 31.2 Vdc
Thermal Dissipation Max	29 BTU/hr at 31.2 Vdc
Platform	FLEX, FLEX Ex, FLEX XT with compatible adapters
Adapters	1794-ASB, 1794-AENT, 1794-AENTR and other 1794 adapters
Related IB	32-point sibling uses TB32 bases
Related IB16D	diagnostic 16-point; also TB32
Not TB	1794-TB3 is the 16 I/O cage-clamp base with 18 commons / 18 +V; IB16 digital 16-pt often specified with TB32 in the digital DC sheet
Operating Temperature	FLEX digital class 0 to 55 C typical
Isolation	FLEX I/O to system isolation class (see 1794 digital DC technical data)
Indicators	per-point status LEDs
Mounting	snaps onto 1794 terminal base on DIN rail

PARAMETER	VALUE
Status	current FLEX catalog item on RA pages Notes Specs from Rockwell FLEX digital DC input tables for 1794-IB16. Confirm TB32 vs TB3 base on the installed terminal. Do not invent off-state current if not on the IB16 row.

1794IB16 Specifications

PARAMETER	VALUE
Applications	FLEX I/O distributed 24 Vdc sinking inputs; ControlLogix/PLC-5/SLC adapters; 16-point digital.
Key Features	- 16 sinking 24 Vdc inputs
Technical Specifications	Model: 1794-IB16

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	FLEX digital class 0 to 55 C typical
Operating Temperature	FLEX digital class 0 to 55 C typical
Isolation	FLEX I/O to system isolation class (see 1794 digital DC technical data)
Indicators	per-point status LEDs
Mounting	snaps onto 1794 terminal base on DIN rail
Status	current FLEX catalog item on RA pages Notes Specs from Rockwell FLEX digital DC input tables for 1794-IB16. Confirm TB32 vs TB3 base on the installed terminal. Do not invent off-state current if not on the IB16 row.

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-IB16
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	FLEX Discrete Input Module
Specifications	
PARAMETER	VALUE
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Alias	1794-IB16; 1794IB16
Inputs	16 sinking
Specifications	
PARAMETER	VALUE
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Specifications	
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Specifications	
PARAMETER	VALUE
Terminal Base	1794-TB32, 1794-TB32S
Input Impedance Max	3.1 kohm
Power Dissipation Max	8.5 W at 31.2 Vdc

Specifications

PARAMETER	VALUE
Thermal Dissipation Max	29 BTU/hr at 31.2 Vdc
Platform	FLEX, FLEX Ex, FLEX XT with compatible adapters
Adapters	1794-ASB, 1794-AENT, 1794-AENTR and other 1794 adapters

Specifications

PARAMETER	VALUE
Related IB32	32-point sibling uses TB32 bases
Related IB16D	diagnostic 16-point; also TB32
Not TB3	1794-TB3 is the 16 I/O cage-clamp base with 18 commons / 18 +V; IB16 digital 16-pt often specified with TB32 in the digital DC sheet

Specifications

PARAMETER	VALUE
Operating Temperature	FLEX digital class 0 to 55 C typical
Isolation	FLEX I/O to system isolation class (see 1794 digital DC technical data)
Indicators	per-point status LEDs

Mounting: snaps onto 1794 terminal base on DIN rail

Status: current FLEX catalog item on RA pages

Notes

Specs from Rockwell FLEX digital DC input tables for 1794-IB16. Confirm TB32 vs TB3 base on the installed terminal. Do not invent off-state current if not on the IB16 row.

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

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