MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

ALLEN-BRADLEY

1746-IB32

THIRTY-TWO-POINT DC INPUT MODULE

Used with the applicable Allen-Bradley SLC 500 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

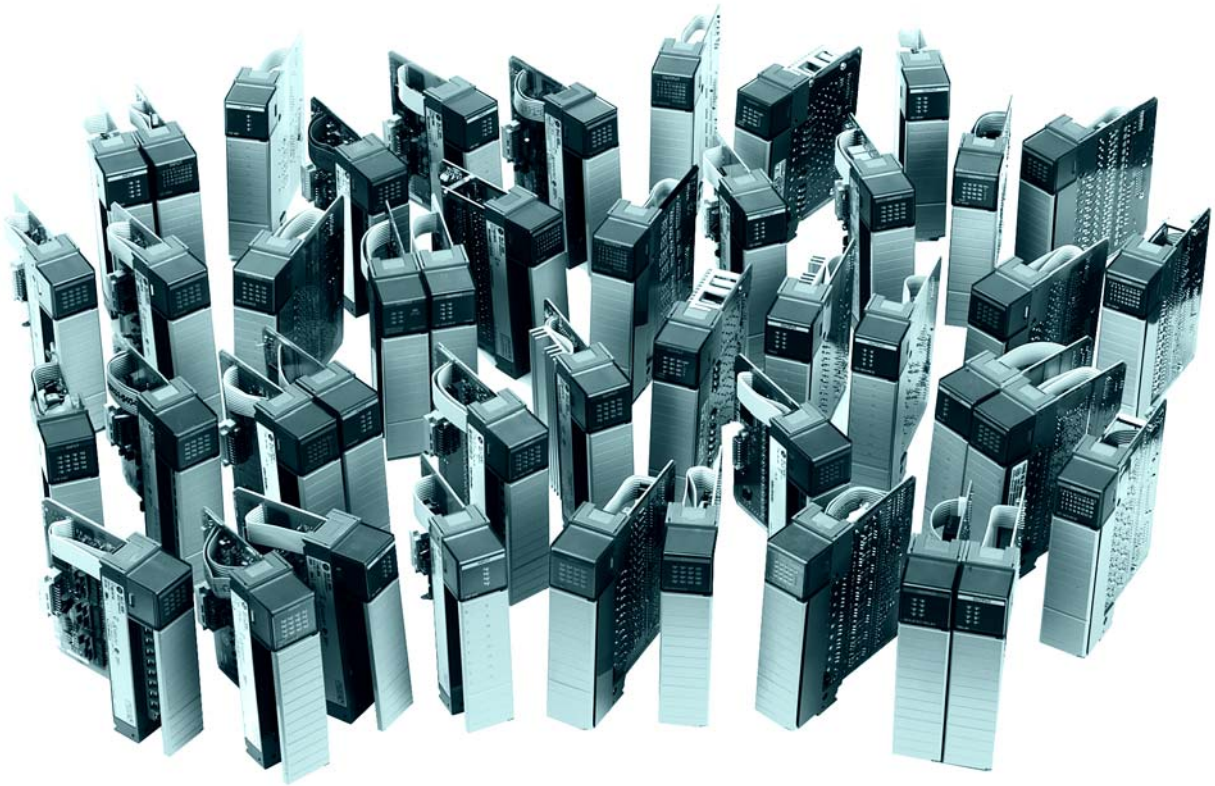
Source: Rockwell Automation manufacturer documentation

Step 1 - Select:

- *I/O modules – available in a variety of densities and voltage options. Some modules have diagnostic features, individually isolated inputs/outputs or electronic protection.*
- *interface modules (IFMs) or prewired cables (optional)*

Select SLC 500 I/O Modules

Digital I/O modules, analog I/O modules, and specialty temperature, counting, process control, and BASIC language modules are available to help you create a custom solution for your application.



1746 Digital I/O modules

Digital I/O modules are available with 4, 8, 16, or 32 channels and in a wide variety of I/O voltages (including AC, DC, and TTL). Combination modules with 2 inputs/2 outputs, 4 inputs/4 outputs, and 6 inputs/6 outputs are also available.

Terminals on the 4, 8, 12, and 16-channel modules have self-lifting pressure plates that accept two 14 AWG (2 mm2) wires. LED indicators on the front of each module display the status of each I/O point.

32-channel I/O modules are equipped with a 40-pin, MIL-C-83503 type header and a removable wiring connector (1746-N3). The connector can be assembled with the wire type and length of your choice.

Output modules are available with solid-state AC, solid-state DC, and relay contact type outputs. High current solid-state output modules, catalog numbers 1746-OBP16, 1746-OVP16, and 1746-OAP12, have fused commons with a blown fuse LED indication. The

1746-OB16E, 1746-OB6EI, and 1746-OB32E modules provide electronic protection from short circuit and overload conditions.

Wiring of 16 and 32-channel modules can also be accomplished with a bulletin 1492 interface module and pre-wired cable. All 16-channel I/O modules and catalog numbers 1746-OX8, 1746-OBP8, 1746-OAP12, 1746-IO12 are equipped with color-coded removable terminal blocks.

Digital I/O Module Overview

Catalog Number	Voltage Category	I/O Points	Description	For Detailed Specifications, See
DC Modules				
1746-IB8	24V DC	8	Current Sinking DC Input Module	Sinking DC Input Modules page 11
1746-IB16	24V DC	16	Current Sinking DC Input Module	
1746-IB32	24V DC	32	Current Sinking DC Input Module	
1746-ITB16	24V DC	16	Fast Response DC Sinking Input Module	
1746-IC16	48V DC	16	Current Sinking DC Input Module	
1746-IH16	125V DC	16	Current Sinking DC Input Module	
1746-IV8	24V DC	8	Current Sourcing DC Input Module	Sourcing DC Input Modules page 12
1746-IV16	24V DC	16	Current Sourcing DC Input Module	
1746-IV32	24V DC	32	Current Sourcing DC Input Module	
1746-ITV16	24V DC	16	Fast Response DC Sourcing Input Module	
1746-IG16[1]	5V DC	16	Current Sourcing TTL Input Module	
1746-OB6EI	24V DC	6	Electronically Protected Isolated Sourcing DC Output Module	Sourcing DC Output Modules page 13
1746-OB8	24V DC	8	Current Sourcing DC Output Module	
1746-OB16	24V DC	16	Current Sourcing DC Output Module	
1746-OB16E	24V DC	16	Electronically Protected Current Sourcing DC Output Module	
1746-OB32	24V DC	32	Current Sourcing DC Output Module	
1746-OB32E	24V DC	32	Electronically Protected Current Sourcing DC Output Module	
1746-OBP8	24V DC	8	High Current Sourcing DC Output Module	
1746-OBP16[2]	24V DC	16	High Current Sourcing DC Output Module	
1746-OV8	24V DC	8	Current Sinking DC Output Module	Sinking DC Output Modules page 12
1746-OV16	24V DC	16	Current Sinking DC Output Module	
1746-OV32	24V DC	32	Current Sinking DC Output Module	
1746-OVP16[2]	24V DC	16	High Current Sinking DC Output Module	
1746-OG16[1]	5V DC	16	Current Sinking TTL Output Module	
AC Modules				

Digital I/O Module Overview

Catalog Number	Voltage Category	I/O Points	Description	For Detailed Specifications, See
1746-IA4	100/120V AC	4	120V AC Input Module	AC Input Modules page 14
1746-IA8	100/120V AC	8	120V AC Input Module	
1746-IA16	100/120V AC	16	120V AC Input Module	
1746-IM4	200/240V AC	4	240V AC Input Module	
1746-IM8	200/240V AC	8	240V AC Input Module	
1746-IM16	200/240V AC	16	240V AC Input Module	
1746-OA8	120/240V AC	8	120/240V AC Output Module	AC Output Modules page 15
1746-OA16	120/240V AC	16	120/240V AC Output Module	
1746-OAP12(2)	120/240V AC	12	High Current 120/240V AC Output Module	
AC/DC Modules				
1746-IN16	24V AC/DC	16	24V AC/DC Input Module	AC Input Modules page 14
1746-OW4(2)	AC/DC Relay	4	Relay (Hard Contact) Output Module	Relay Output Modules page 16
1746-OW8(2)	AC/DC Relay	8	Relay (Hard Contact) Output Module	
1746-OW16(2)	AC/DC Relay		Relay (Hard Contact) Output Module	
1746-OX8(2)	AC/DC Relay	8	Relay (Hard Contact) Output Module	
1746-IO4(2)	120V ac (Inputs) 100/120V AC (Relay Contact Outputs)	2 In 2 Out	Combination Input/Output Module	Combination I/O Modules page 17
1746-IO8(2)	120V AC (Inputs) 100/120V AC (Relay Contact Outputs)		Combination Input/Output Module	
1746-IO12(2)	120V AC (Inputs) 100/120V AC (Relay Contact Outputs)	4 In 4 Out	Combination Input/Output Module	
1746-IO12DC	24V DC (Inputs) 100/120V AC (Relay Contact Outputs)	6 In 6 Out	Combination Input/Output Module	

(1) Not CE marked.

(2) Certified for Class 1, Division 2 hazardous location by C-UL only.

Sinking DC Input Modules

Specifications	1746-IB8	1746-IB16	1746-IB32	1746-IC16	1746-IH16(1)	1746-ITB16
Number of Inputs	8	16	32	32	16	16
Points Per Common	8	16	8	8	16	16
Voltage Category	24V DC			48V DC	125V DC	24V DC
Operating Voltage Range	10…30V DC		15…30V DC @ 50 °C (122 °F) 15…26.4V DC @ 60 °C (140 °F)	30…60V DC @ 55 °C (131 °F) 30…55V DC @ 60 °C (140 °F)	90…146V DC(2)	10…30V DC
Backplane Current (mA) @ 5V	50 mA	50 mA	50 mA	50 mA		
Backplane Current (mA) @ 24V	0 mA	0 mA	0 mA	0 mA	0 mA	0mA