

(Cat 1492-CM1771-LD011)

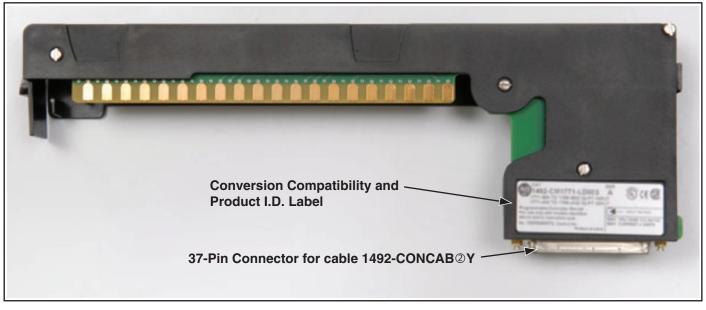
I. Description

This Digital I/O Conversion Module provides for the conversion of (1) 1771, 32 point I/O modules to be converted to (1) 1756, 32 point I/O module and consists of the following:

(1) 1771 Module (32pt) to (1) 1756 Module (32pt)

- (2) Conversion Module: 1492-CM1771-LD005
- (1) Cable: 1492-CONCAB005Z (Table 2, Section III)
- (1) Conversion Mounting Assembly: 1492-MUA... (Table 1, Section II)

This conversion is accomplished without the removal of any field wires from the existing 1771 Swing Arm. The existing 1771 Swing Arm fits directly onto the edge connector of the 1492 Conversion Module. On one end of the 1492 Cable is (1) connector for the Conversion Module. On the other end is the Removable Terminal Block (RTB) for the 1756 I/O module, as shown in the photo below. The I/O signals are routed through the 1492 Conversion Module and the 1492 Cable to the appropriate terminals on the 1756 I/O module per the Wiring Diagrams in Section V. As standard, both portions of the 1492 Cables are 0.5M long, but we also offer a 1.0M cable length. Refer to the footnotes in Table 2, Section III for further details.



1492-CM1771-LD011 Conversion Module

De-energize and lockout any and all power to all I/O field devices connected to the A-B 1771 I/O chassis,
and the power to the 1771 I/O chassis itself. Ensure all power is de-energized and locked out to any
device in the control cabinet where the conversion is to be performed. Ensure work is performed by
qualified personnel.

II. Installation

The 1492 Conversion Modules must be installed in a 1492 Conversion Mounting Assembly (see Table 1 below). A complete System Installation Manual ships with the 1492 Conversion Mounting Assembly.

1) Determine the quantity of each type of 1771 I/O modules used in the 1771 I/O Chassis to be converted.

2) Select the applicable 1492 Conversion Modules from Table 2, Section III.

3) Review the Max Slots for I/O and Chassis Width data from the Table 1 below.

4) Select a 1756 I/O Chassis which has enough I/O Slots.

NOTE: (2) I/O slots are required in the 1756 Chassis for conversions where (1) 1771 I/O module converts to (2) 1756 I/O modules.

5) Select the 1492 Conversion Mounting Assembly which has enough Conversion Module slots.

NOTE: (2) Conversion Module slots are required in the 1492 Conversion Mounting Assembly for conversions where (2) 1771 I/O module convert to (1) 1756 I/O modules.

NOTE: The 1492 Conversion Mounting Assembly has the same Height & Width foot-print as the 1771 Chassis and is designed to use the same mounting hardware. The combined Depth of the 1492 Conversion Mounting Assembly with the 1756 Chassis mounted on top is 10.25 inches (Controller w/key) or 10.0 inches (Controller w/o key). Dimension drawings are included in the System Installation Manual that ships with the 1492 Conversion Mounting Assembly.

Table 1: Bulletin 1771 to 1756 Chassis Conversion

1771 Chassis			1756 Chassis			Conversion Mounting Assembly			
	Мах	Chassis Width $^{\textcircled{O}}$			Мах			Max Slots	
Cat. No.	Slots for I/O	without Power Supply	with Power Supply	Cat. No.	Slots for I/O	Chassis Width	Cat. No.	for Conversion Modules	Chassis Width
1771-A1B	4774 440 4	9.01	12.61	1756-A4	3	10.35		4	9.01
1771-AIB	4			1756-A7	6	14.49	1492-MUA1B-A4-A7		
1771-A2B	8	14.01	17.61	1756-A7	6	14.49	1492-MUA2B-A7-A10	8	14.01
	0	14.01	17.01	1756-A10	9	19.02		0	17.01
1771-A3B1 ^① 12	12	10	.01	1756-A10	9	19.02	1492-MUA3-A10-A13	12	19.01
TTT FASET			19.01		12	23.15	1432-10043-410-413	12	13.01
1771-A4B	16	24.01	1756-A13	12	23.15	1492-MUA4-A13-A17	16	24.01	
1771-A4D	10	24.01		1756-A17	16				29.06

Foot Notes:

① 1771-A3B is not listed as it is used for 19 inch wide instrumentation panels.

② Notice that the 1756 Chassis Width sometimes exceeds the 1771 Chassis Width, with or without the Power Supply. The Cover-Plate of the 1492 Conversion Mounting Assembly allows the 1756 Chassis to be Left justified, Right justified or Centered. A complete System Installation Manual ships with the 1492 Conversion Mounting Assembly.

III. Compatiblity

1771	1756	1492	1492
Digital I/O Module①	Digital I/O Module①	Conversion Module	Cable②
1771-OW16	1756-OW16I	1492-CM1771-LD0011	1492-CONCAB005Y

Foot Notes:

① To understand any issues concerning I/O module compatibility, refer to the Installation Manuals for the specific 1771 and 1756 I/O modules involved.

The 3 numbers indicate the cable length of each portion of the 1492 Cable. Recommended cable lengths of 0.5M are shown. Additional cable lengths are as follows:
1.0M = 1492-CONCAB010Y

IV. Conversion Module Specifications

(Operating specifications are when installed in the Conversion System base / cover-plate assembly)

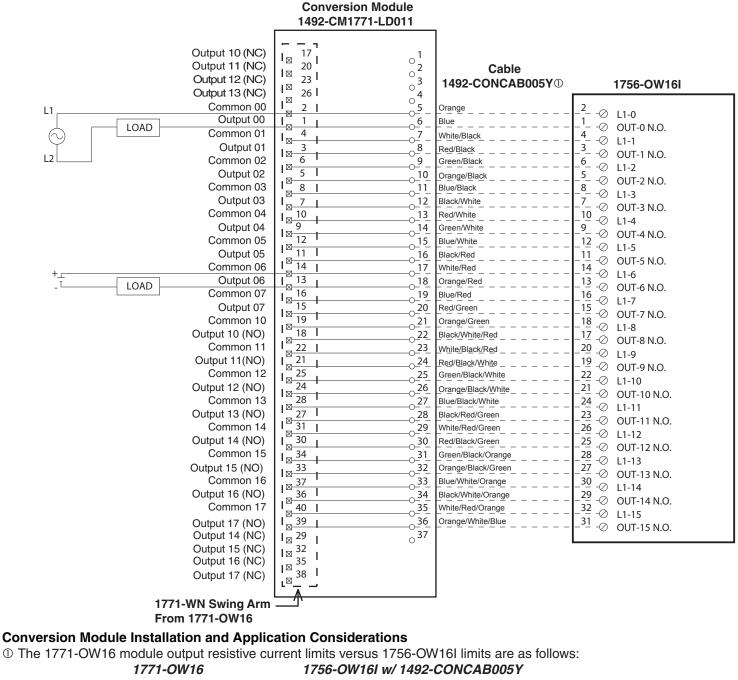
Specification	Value		
Dimensions	11.81 in. (height) x 4.38 in. (depth) x 1.5 in. (width)		
	300 mm. (height) x 111.25 mm (depth) x 38.1 mm (width)		
Approximate Shipping Weight	238.9 g (0.53 lbs) (includes carton)		
Storage Temperature	-40 to +85°C (-40 to +185°F)		
Operating Temperature	0 to 60°C (32 to 140°F)		
Operating Humidity	5 to 95% at 60°C (non-condensing)		
Shock			
Nonoperating	50g		
Operating	30g		
Operating Vibration	2g at 10 to 500Hz (Agrees with 1756 I/O module specifications		
Maximum Operating Voltage	240 Vac at 47 to 63Hz or 240 Vdc		
Max. Module Operating Current			
Per Point:	2 Amps		
Per Module:	12 Amps		
	NOTICE Refer to the Wiring Diagram(s) for		
	current limits for a specific configuration.		
Agency Certifications	UL Classified: Under UL File Number E113724		
Ageney Contineations	CSA		
	CE: compliant for all applicable directives		
Pollution Degree	2		
Environmental Rating	IP20		

V. Wiring Diagrams

Conversion: 1771-OW16 to 1756-OW16I



There are several key application considerations and system specifications (bottom of drawing) when using these components (conversion module, cable and input module). Read and understand these considerations before installation.



	1771-00010	1750-OW101W/14
a) Current/Point	2A @ 250V AC	2A @ 240V AC
	2A @ 30V DC	2A @ 30V DC
	0.3A @ 150V DC	0.25A @ 125V AC

^② The 1492-CONCAB005Y is limited to 3A per pin.

③ The 1771-OW16 has N.O. and N.C. relay contact outputs. The 1756-OW16I has N.O. relay contact outputs only. The conversion module does not convert the N.C. to N.O. contacts. If the 1771-OW16 N.C. outputs were being used, the installer must rewire the 1771-WN swing arm and move the N.C. wires to the N.O. output terminals. In addition, the control Logix programming will need to be changed to simulate a N.C. relay with this output.

③ Refer to your 1771-OW16 and 1756-OW16I Installation Manual wiring schematics and diagrams for more details.
Ensure 1756 output module ratings are not exceeded.
Reference Doc: 41170-940 (Version 01)]

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