

Digital Interface Modules (XIMs)

Relay

1492 – XIM 20 24 – 16RF
 a b c d

a

Modules	
Code	Description
XIM	Relay Interface Module with Fixed Terminal Block
RXIM	Relay Interface Module with Removable Terminal Block
XIMTR	Mechanical High Density Relay Interface Module with Fixed Terminal Block
RXIMTR	Mechanical High Density Relay Interface Module with Removable Terminal Block
XIMTS	Solid-State High Density Relay Interface Module with Fixed Terminal Block
RXIMTS	Solid-State High Density Relay Interface Module with Removable Terminal Block

b

No. Cable Connector Pins	
Code	Description
20	20 pins
40	40 pins
Blank	Expander module

c

Module Type (all types do not configure a catalog number)	
Code	Description
F	24V relay coil
F-F24	5 x 20 mm fuse holders with 24V blown fuse indication
F-F120	5 x 20 mm fuse holders with 120V blown fuse indication D
24	24V relay coil
120	120V relay coil

d

No. Cable Connector Pins	
Code	Description
2	2 terminals per point
8R	8 relays
16R	16 relays
16RF	16 fused relays
32R	32 relays

d

Number of Field Side Wiring Terminals	
Code	Description
Blank	One per I/O connection (Standard Terminals)
2	Two per I/O connection (Extra Terminals)
3	Three per I/O connection (Sensor Terminals)
4	Four per I/O connection (Special Terminal)

Relay master and expander XIMs are available for Bulletin 1746, 1756, 1769, and 1771 digital output modules.

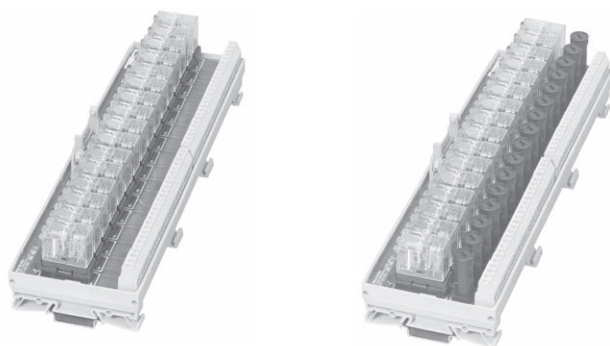
Relay Master XIM — Provides 8 or 16 relay outputs for a digital output module. There are 16 relays with fusing.

Expander XIM — In addition to the relay master XIM, an expander XIM provides eight additional outputs. There are three types of expander XIMs: eight-channel relays, eight-channel fusing, and eight-channel feed-through XIMs, sixteen channel relays, sixteen channel relays with fusing.

Relay Master

Relay Master with Fusing

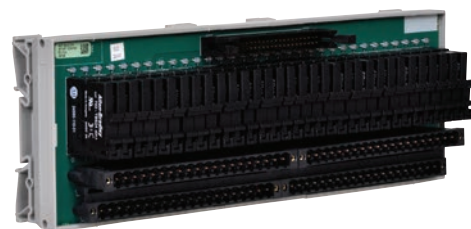
High Density Relay Master



Relay Masters

For 20-point: Cat. No. 1492-XIM2024-8R, 1492-XIM2024-16R,
1492-XIM20120-8R, 1492-XIM20120-16R

For 40-point: Cat. No. 1492-XIM4024-16R



Available in 16 pt or 32 pt modules, the high density relay modules eliminate the need for extender relay modules. Available in easily replaceable plug-in style electromechanical or solid-state relays.

LED indicator lights are provided for each output circuit with removable terminal blocks (RTB's) available as an option for connecting the field devices.

Relay master XIMs feature field-replaceable relays with 120V or 24V rated coils. The field-side Form C contacts are rated 240V 10 A (de-rated to 12 A per adjacent pair on the XIM). The Form C relay output provides isolated output channels and a different voltage level from one output channel to the next. Other features include coil-side LED indicating the output module status, and transient suppression on each coil. In addition, some relay masters have 5x20 fuse holders so customers can fuse the output contacts.

Programmable Controller Wiring Systems

Bulletin 1756 ControlLogix Modules

Relay XIMs and Cables for Bulletin 1756 ControlLogix 8-point and 16-point I/O Modules

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block Cat. No.	Removable Terminal Block Cat. No.	RTB Plugs ❖ Cat. No.	Bulletin 1756 ControlLogix I/O Module											
						1756-IA8D	1756-IA16	1756-IB16	1756-IC16	1756-IN16	1756-IV16	1756-OA8	1756-OA8D	1756-OA8E	1756-OA16	1756-OB8	1756-OB16E
						Digital Cable Cat. No. Suffix †											
Relay Master, LED Indicating §❖																	
24	1	8 Relays	1492-XIM2024-8R	—	—												X
	1	16 Relays	1492-XIM2024-16R	—	—												X
	1	16 Relays w/Fusing	1492-XIM2024-16RF	—	—												X
120	1	8 Relays	1492-XIM20120-8R	—	—												X
	1	16 Relays	1492-XIM20120-16R	—	—												X
	1	16 Relays w/Fusing	1492-XIM20120-16RF	—	—												X
High Density Relay Master, LED Indicating §❖																	
24	1	16 Relays - Mechanical	1492-XIMTR2024-16R	1492-RXIMTR2024-16R	1492-RTB20❖												X
	1	16 Relays - Solid-State	1492-XIMTS2024-16R	1492-RXIMTS2024-16R	—												X
Relay Expander, LED Indicating §❖																	
24	1	8 Relays	1492-XIM24-8R	1492-RXIM24-8R	1492-RTB12❖												*
120	1	8 Relays	1492-XIM120-8R	—	—											*	
Fusible Expander																	
120	2	8-ch - blown fuse indication	1492-XIMF-F24-2	—	—											*	
120	2	8-ch - blown fuse indication	1492-XIMF-F120-2	—	—										*		
Feed-Through Expander																	
120	2	8-ch	1492-XIMF-2	—	—										*	*	

† To order a Pre-wired Cable, add the appropriate **letter** from the selection table above to the end of the **Cat. No.** below.

0.5M Cable = 1492-CABLE005_
 1.0M Cable = 1492-CABLE010_
 2.5M Cable = 1492-CABLE025_
 5.0M Cable = 1492-CABLE050_

Custom Length Cable = 1492-CABLEXXX_. See Catalog Number Explanation on page 12-137 for available Custom Length Codes to replace XXX in Cat. No.

❖ Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the ❖ in the catalog number with the code for the desired terminal style. The code for screw style is **N** and the code for push in style is **P**.

* Can have up to one (1) expander module depending upon master used (total 16 outputs or less). An extender cable is provided.

❖ LED indicating PLC output status

§ The voltage rating is relay control/coil voltage. For relay contact ratings, refer to page 9-42.

Programmable Controller Wiring Systems

Bulletin 1794 Flex I/O Modules

Relay XIMs and Cables for Bulletin 1794 Flex I/O 8-Point and 16-Point Modules

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block Cat. No.	Removable Terminal Block Cat. No.	RTB Plugs ❖ Cat. No.	Bulletin 1794 Flex Digital I/O Module ❖											
						1794-IB16	1794-IB8	1794-IB10XOB6	1794-IV16	1794-OB16	1794-OB16P	1794-OB8	1794-OB8EP	1794-OV16	1794-OV16P	1794-OW8	
Digital Cable Cat. No. Suffix †																	
Relay Master (LED Indicating)§❖																	
24	1	8 Relays	1492-XIM2024-8R	—	—				A94	A94	A94						
	1	16 Relays	1492-XIM2024-16R	—	—				A94	A94							
	1	16 Relays w/ fusing	1492-XIM2024-16RF	—	—				A94	A94							
Relay Expander (LED Indicating)§❖																	
24	1	8-ch Expander	1492-XIM24-8R	1492-RXIM24-8R	1492-RTB12❖				❖	❖							
Fusible Expander																	
24	2	8-ch Expander	1492-XIMF-F24-2	—	—				❖	❖							
Feed-Through Expander																	
24...120	2	8-ch Expander	1492-XIMF-2	—	—				❖	❖							

Relay XIMs and Cables for Bulletin 1794 Flex I/O 16-Point and 32-Point Modules

Voltage [V]	Term. per I/O	Description	Fixed Terminal Block Cat. No.	Removable Terminal Block Cat. No.	RTB Plugs ❖ Cat. No.	Bulletin 1794 Flex Digital I/O Module			
						1794-IB16D	1794-IB16XOB16P	1794-IB32	1794-OB32P
Digital Cable Cat. No. Suffix †									
Relay Master (LED Indicating)§❖									
24	1	8 Relays	1492-XIM4024-8R	—	—				B94
24	1	16 Relays	1492-XIM4024-16R	1492-RXIM4024-16R	1492-RTB14❖				B94
24	1	16 Relays w/ fusing	1492-XIM4024-16RF	—	—				B94
Relay Expander (LED Indicating)§❖									
24	1	8 Relay Expander	1492-XIM24-8R	1492-RXIM24-8R	1492-RTB12❖				*
Fusible Expander									
24	2	8-ch Expander, Blown Fuse LED	1492-XIMF-F24-2	—	—				*
24	1	16-ch Expander, Blown Fuse LED	1492-XIM24-16RF	—	—				❖
Feed-Through Expander									
120	2	8-ch	1492-XIMF-2	—	—				*

† To order a Pre-wired Cable, add the **Suffix No.** from the table above to the end of the **Cat. No.** below.

- 0.5M Cable = 1492-CAB005_
- 1.0M Cable = 1492-CAB010_
- 2.5M Cable = 1492-CAB025_
- 5.0M Cable = 1492-CAB050_

Custom Length Cable = 1492-CABXXX_. See Catalog Number Explanation on page 12-136 for available Custom Length Codes to replace XXX in Cat. No.

❖ Order plugs separately (two plugs per catalog number). Plugs are available in screw style and push in style terminal types. To order, replace the ❖ in the catalog number with the code for the desired terminal style. The code for screw style is **N** and the code for push in style is **P**.

* Two or three expanders are connected to a master to provide a total of 32 outputs max (depends on PLX module). And extender cable is included with each expander to connect it to the master.

❖ One 1492-XIM24-16RF is to be used with one 1492-XIM4024-16R and 1492-XIM4024-16RF master (32 pt. only).

❖ The LED indicates the PLC output status.

➤ Uses D-Shell Base 1794-TB62DS

§ The voltage rating is relay control/coil voltage. For relay contact ratings, refer to page 9-42.

Analog IFM Specifications

Analog IFM Cat. No.	Voltage Range	Max. Current (Per Circuit) [A]	Max. Current (Per Module) [A]	Dimensions (W x H x D) [in.]	Indicator Circuit Current (Nominal) [mA]	Label Card Cat. No.*
1492-AIFM4-3, -RAIFM4-3	0...10V DC	2	12	2.36 x 3.27 x 2.74‡	—	46006-205-01
1492-AIFM4C-F-5	10...30V DC	2	12	3.15 x 3.27 x 2.74	2	46006-203-01
1492-AIFM4I-F-5	10...30V DC	2	12	3.15 x 3.27 x 2.74	2	46006-203-01
1492-AIFM6S-3, -RAIFM6S-3	0...132V AC/DC	2	12	3.15 x 3.27 x 2.74‡	—	46006-202-01
1492-AIFM6TC-3	0...132V AC/DC	2	12	3.15 x 3.27 x 2.74	—	46006-202-01
1492-AIFMCE4	5...32V AC/DC	2	8	5.12 x 3.27 x 2.74	—	46006-232-01
1492-AIFMCE4-F	5...32V AC/DC	2	8	5.12 x 3.27 x 2.74	1 mA @ 5V DC 6 mA @ 24V DC	46006-232-01
1492-AIFM8-3, -RAIFM8-3	0...132V AC/DC	2	12	4.33 x 3.27 x 2.74‡	—	46006-200-01, 46006-238-01
1492-AIFM8-F-5	10...30V DC	2	12	4.72 x 3.27 x 2.74	2	46006-196-01, -254-01
1492-AIFM16-F-3	10...30V DC	2	12	4.72 x 3.27 x 2.74	2	46006-213-01
1492-AIFM16-F-5	10...30V DC	2	12	8.27 x 3.27 x 2.74	2	46006-198-01
1492-AIFMQS	10...30V DC	3	12	4.72 x 3.27 x 2.74	2	46006-199-01
1492-AIFMPI	0...30V DC	2	12	4.72 x 3.27 x 2.74	2	46006-243-01
1492-TAIFM16-F-3	24V DC	2	12	9.88 x 3.27 x 2.74	2	46006-231-01

* Ships with each module. For spare part, precede the part number with the letter "W."

‡ Add 0.39 in. to the width dimension for Bulletin 1492-Rxxx modules.

Relay Master/Expandable Interface Module Specifications

Relay Master/Expandable XIM Cat. No.	Voltage Range	Max. Current (Per Circuit/Per Relay Pair) [A]	Max. Current (Per Module) [A]	Dimensions (W x H x D) [in.]	Indicator Circuit Current (Nominal) [mA]	Label Card Cat. No.*
1492-XIM4024-16R, -RXIM4024-16R	20...26V DC	10/12	96	9.06 x 3.27 x 2.78	2	46006-222-01
1492-XIM4024-8R	20...26V DC	10/12	48	6.30 x 3.27 x 2.78	2	46006-216-01
1492-XIM2024-8R	20...26V AC	10/12	48	6.30 x 3.27 x 2.78	2	46006-216-01
1492-XIM20120-8R	96...132V AC	10/12	48	6.30 x 3.27 x 2.78	2	46006-216-01
1492-XIM24-8R, RXIM24-8R	20...26V AC	10/12	48	6.30 x 3.27 x 2.78	2	46006-217-01
1492-XIM120-8R	96...132V AC	10/12	48	6.30 x 3.27 x 2.78	2	46006-217-01
1492-XIM2024-16R	20...26V DC	10/12	96	10.65 x 3.27 x 2.78	2	46006-223-01
1492-XIM2024-16RF	20...26V DC	10/12	96	10.65 x 3.27 x 2.78	2	46006-223-01
1492-XIM20120-16R	96...132V AC	10/12	96	10.65 x 3.27 x 2.78	2	46006-223-01
1492-XIM20120-16RF	96...132V DC	10/12	96	10.65 x 3.27 x 2.78	2	46006-223-01
1492-XIM4024-16RF	20...26V AC	10/12	96	11.5 x 3.27 x 2.78	2	46006-223-01
1492-XIMF-2	0...132V AC/DC	2/NA	4	3.15 x 3.27 x 2.19	—	46006-218-01
1492-XIMF-F24-2	10...30V DC	2/NA	4	3.15 x 3.27 x 2.19	2	46006-218-01
1492-XIMF-F120-2	85...132V AC	2/NA	4	3.15 x 3.27 x 2.19	2	46006-218-01
1492-XIM24-16RF	20...26V AC	10/12	96	11.5 x 3.27 x 2.78	2	46006-219-01
1492-XIMTR2024-16R, -RXIMTR2024-16R	24 V DC	4	64	4.72 x 3.27 x 2.74	2	46006-257-01
1492-XIMTR4024-32R, -RXIMTR4024-32R	24 V DC	4	128	9.45 x 3.27 x 2.74	2	46006-257-01
1492-XIMTS2024-16R, -RXIMTS2024-16R	24 V DC	.75	12	4.72 x 3.27 x 2.74	2	46006-257-01
1492-XIMTS4024-32R, -RXIMTS4024-32R	24 V DC	.75	24	9.45 x 3.27 x 2.74	2	46006-257-01

* Ships with each module. For spare part, precede the part number with the letter "W."