

Pinout Guide for 1738 ArmorPOINT Adapters and Power Supplies

Catalog Numbers 1738-ADN12, 1738-ADN18, 1738-ADN18P, 1738-ADNX, 1738-APB, 1738-AENT, 1738-AENTR, 1738-ACNR, 1738-FPD, 1738-EP24DC, Series B

Parts List

Your package contains one 1738 ArmorPOINT I/O® module and these wiring instructions.

For complete installation instructions, refer to the Module Publication Number table and visit <http://rockwellautomation.com/literature>.

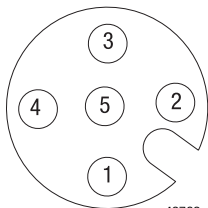
Module Publication Number

Module	Publication Number
ArmorPOINT DeviceNet Adapter Modules (1738-ADN12, 1738-ADN18, 1738-ADN18P, 1738-ADNX)	1738-IN014
ArmorPOINT I/O PROFIBUS Adapter Module (1738-APB)	1738-IN015
ArmorPOINT I/O ControlNet Adapter Module (1738-ACNR)	1738-IN016
ArmorPOINT I/O ControlNet Adapter Module Release Notes (1738-ACNR)	1738-RN001
POINT I/O and ArmorPOINT I/O EtherNet/IP Dual Port Adapters Release Notes (1734-AENTR, 1738-AENTR)	1734-RN010
ArmorPOINT I/O EtherNet/IP Dual Port Adapter Module (1738-AENTR)	1738-IN030
ArmorPOINT I/O EtherNet/IP Adapter Module (1738-AENT)	1738-IN031
ArmorPOINT I/O Field Potential Distributor Module (1738-FPD)	1738-IN019
ArmorPOINT I/O Power Supply Module (1738-EP24DC)	1738-IN020

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1738-ADN12 and 1738-ADNX

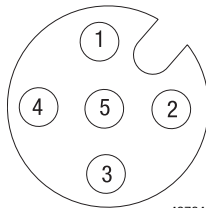
Male In Connector



(view into connector)

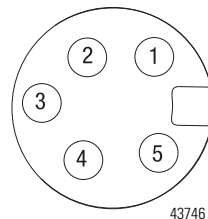
Pin 1 Drain
Pin 2 +V
Pin 3 -V
Pin 4 CAN_High
Pin 5 CAN_Low

Female Out Connector (Subnet out - 1738-ADNX only)



1738-ADN18 and 1738-ADN18P

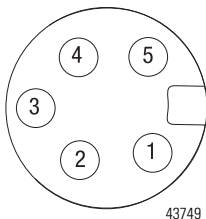
Male In Connector



(view into connector)

Pin 1 Drain
Pin 2 +V
Pin 3 -V
Pin 4 CAN_High
Pin 5 CAN_Low

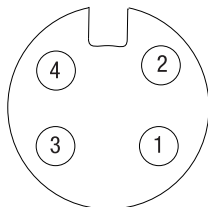
Female Out Connector (1738-ADN18P only)



ATTENTION: This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR 11. Without appropriate precautions, there may be difficulties with electromagnetic compatibility in residential and other environments due to conducted and radiated disturbance.



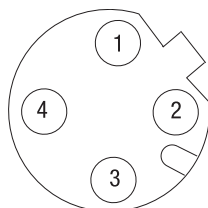
ATTENTION: Two sets of mounting holes are used to mount the module directly to a panel or machine. Mounting holes accommodate #8 (M4) machine or self-tapping screws. The torque specification is 0.8 Nm (7 lb-in).

1738 ArmorPOINT DeviceNet, ControlNet, EtherNet/IP Auxiliary Power ⁽¹⁾**Mini Style 4-Pin in Male Connector**

43587

(view into connector)

- Pin 1 User Power +
- Pin 2 Adapter Power +
Adapter/Subnet + (1738-ADNX only)
- Pin 3 Adapter Power -
Adapter/Subnet - (1738-ADNX only)
- Pin 4 User Power -

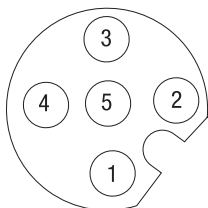
1738-AENT and 1738-AENTR

43765

M12 Female In Connector

(view into connector)

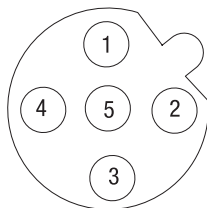
- Pin 1 Tx +
- Pin 2 Rx +
- Pin 3 Tx -
- Pin 4 Rx -

1738-APB**Male In Connector**

46202

(view into connector)

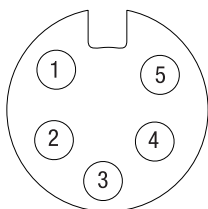
- Pin 1 +5VBUS
- Pin 2 A-Line
- Pin 3 GNDBUS
- Pin 4 B-Line
- Pin 5 Shield

Female In Connector

46203

⁽¹⁾ Auxiliary power cable: standard cordset (single-ended), for example Allen-Bradley part number 889N-F4AFC-6F or 889N-R4AFC-6F; or standard patchcord (double-ended), for example, Allen-Bradley part number 889N-F4AFNU-6F or 889N-F4AFNV-6F. Refer to publication [M117-CA001A-EN-P](#) for more information.

1738-APB Male Auxiliary



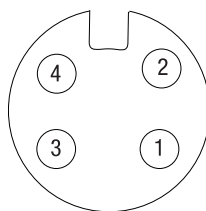
43268

Male In Connector

(view into connector)

- Pin 1 User Power -
- Pin 2 Adapter Power -
- Pin 3 Protective GND
- Pin 4 Adapter Power +
- Pin 5 User Power +

1738-FPD and 1738-EP24DC Power Supply



43587

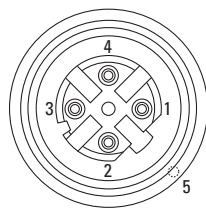
Male In Connector

(view into connector)

- Pin 1 User Power +
- Pin 2 No Connect (1738-FPD)
Adapter + (1738-EP24DC)
- Pin 3 No Connect (1738-FPD)
Adapter - (1738-EP24DC)
- Pin 4 User Power -

Ethernet Connector Pinout Guide

D-Code M12 Micro Network Female Connector



44808

(View into connector)

- Pin 1 Tx+
- Pin 2 Rx+
- Pin 3 Tx-
- Pin 4 Rx-
- Pin 5 Shell

Specifications

General Specifications

Attribute	1738-FPD	1738-EP24DC	1738-AENT	1738-AENTR
Backplane output current	Pass-Through	5V DC @ 1.3 A	5V DC @ 1.0 A	5V DC @ 0.8 A
Operating voltage	12/24V DC 120/240V AC	10...28.8V DC		

Environmental Specifications

Attribute	1738-FPD	1738-EP24DC	1738-AENT	1738-AENTR
Temperature, operating	-20...60° C (-4...140 °F)			

Certifications

Certification (when product is marked) ⁽¹⁾	Value
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657.
CE	European Union 2004/108/EC EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) For 1738-FPD Only European Union 2006/95/EC LVD, compliant with: EN 61131-2; Programmable Controllers (Clause 11)
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR11; Industrial Emissions
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications

⁽¹⁾ See the Product Certification link at <http://www.rockwellautomation.com/products/certification/> for Declaration of Conformity, Certificates, and other certification details.

Notes:

Notes:

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

Installation Assistance

If you experience a problem within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your product up and running.

United States	1.440.646.3434 Monday – Friday, 8 a.m. – 5 p.m. EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

New Product Satisfaction Return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor in order to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

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