



INFORMATION AND OPERATION

MANUAL

for the

## Broadcast Tools® COA-15/RJ

**DB-15M to RJ45 Breakout Adapter.**

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## BROADCAST TOOLS® COA-15/RJ

### INTRODUCTION

Thank you for your purchase of the **COA-15/RJ**, DB-15M to RJ45 Breakout Adapter, which we will refer to throughout the manual as the **COA-15/RJ**. We're confident this product will give you many years of dependable service. This manual is intended to give you all the information needed to install and operate the BROADCAST TOOLS® **COA-15/RJ**.

### SAFETY INFORMATION

Only qualified technical personnel should install the **COA-15/RJ**. Any attempt to install this device by a person who is not technically qualified could result in a hazardous condition for the installer or other personnel or damage to the **COA-15/RJ** or other equipment. Please ensure that proper safety precautions have been taken before installing this device. If you are unfamiliar with this type of equipment, please contact a properly qualified engineer to handle the installation and setup of the **COA-15/RJ**. Broadcast Tools, Inc., is unable to support NON-Broadcast Tools software, hardware, or NON-Broadcast Tools computer/hardware/software problems. If you experience these problems, please research your hardware/software instruction manuals, or contact the manufacturers technical support department.

### WHO TO CONTACT FOR HELP?

If you have any questions regarding your product or need assistance, please contact the distributor from whom you purchased this equipment. If you would like more information about BROADCAST TOOLS® products, you may reach us at:

**Broadcast Tools, Inc.**  
131 State Street  
Sedro-Woolley, WA 98284-1503 USA  
Voice: 360.854.9559  
Fax: 866.783.1742  
Internet Home Page: [www.broadcasttools.com](http://www.broadcasttools.com)  
E-mail: [support@broadcasttools.com](mailto:support@broadcasttools.com)

***THANK YOU FOR CHOOSING BROADCAST TOOLS® BRAND PRODUCTS!***

**Product Overview**

The **COA-15/RJ** is a DB-15M to RJ45 Breakout Adapter used to convert GPIO xNode General Purpose Outputs (GPOs) to an RJ45 connector. The COA-15/RJ also breaks out the GPIO ports 5 GPIs to their own RJ45 jack for ease of installation. Using the **Broadcast Tools COA-15/ RJ**, DB-15M to dual RJ45 adapter you can easily interface the GPO output from a GPIO xNode port with the optional **Broadcast Tools Box O' Relays 6** via standard Cat5/6 cabling converting the port's 5 GPOs to 5 isolated SPDT dry contact closure outputs on pluggable screw terminal block.

**Inspection**

Please examine your **COA-15/RJ** carefully for any damage that may have been sustained during shipping. If any damage is present, please notify the shipper immediately and retain the packaging for inspection by the shipper. The package should contain the **COA-15/RJ**. Manuals can be downloaded from our web site.

**Installation/Operation**

The **COA-15/RJ** connects with your equipment through an RJ45 cable. Follow the labels in this manual and on the circuit board for all connections.

Step 1: Plug the 15-pin male D-sub connector on the **COA-15/RJ** into the GPIO port.

Step 2: Tighten the two 4–40 mounting screws on the COA's 15-pin D-sub connector's mounting ears, securing the **COA-15/RJ** to the GPIO port's mating connector.

Step 3: Connect the user-supplied Cat5 cabling to the RJ45 jacks on the **COA-15/RJ** labelled "J2" "Out"

Step 4: Connect the other end of the Out/GPO RJ45 Cat5 cabling to the destination device, such as the optional **Broadcast Tools Box O' Relay 6**, or into a user-supplied punch block.

**RJ45 Out/GPO Jack Pinout (J2-1):**

<u>Function:</u>	<u>Wire Pair:</u>	<u>RJ45 Pins:</u>
Ground	White/Orange	1
GPO 1	Orange/White	2
GPO 2	White/Green	3
GPO 5	Green/White	6
GPO 4	White/Blue	5
GPO 3	Blue/White	4
GPO 6	White/Brown	7
+5V IN	Brown/White	8

**RJ45 In/GPI Jack Pinout (J2-2):**

<u>Function:</u>	<u>Wire Pair:</u>	<u>RJ45 Pins:</u>
Ground	White/Orange	1
GPI 1	Orange/White	2
GPI 2	White/Green	3
GPI 5	Green/White	6
GPI 4	White/Blue	5
GPI 3	Blue/White	4
GPI 6	White/Brown	7
+5V IN	Brown/White	8

**DB15 Pinout**

<u>Function:</u>	<u>Pin:</u>
GPO Out 1	1
GPO Out 2	2
GPO Out 3	3
GPO Out 4	4
GPO Out 5	5
n/c	6
Output Com	7
GND	8
+5V Out	9
Input Com	10
GPI In 1	11
GPI In 2	12
GPI In 3	13
GPI In 4	14
GPI In 5	15

**SPECIFICATIONS**

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**Connectors:** Inputs and Outputs:  
(2)RJ45 input jack.

**Dimensions:** (W x L x H)

**Options:** **Box O' Relay 6,**

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LIMITED WARRANTY AND REMEDIES**

**LIMITED WARRANTY**

The term “Buyer” as used in this document refers to and includes both (but only) (a) any person or entity who acquires such an item for the purpose of resale to others (i.e., a dealer or distributor of an item), and (b) the first person or entity who acquires such an item for such person’s or entity’s own use.

Broadcast Tools warrants to each Buyer of any item manufactured by Broadcast Tools that the item will be free from defects in materials and workmanship at the time it is shipped by Broadcast Tools if the item is properly installed, used, and maintained.

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If Broadcast Tools is notified, in writing, of a failure of any item manufactured by Broadcast Tools to conform to the foregoing Limited Warranty within one (1) year following the date of the Buyer’s acquisition of the item, and if the item is returned in to Broadcast Tools in accordance with Broadcast Tools’ instructions for confirmation by inspection of the defect (which at Broadcast Tools’ election may include, without limitation, a requirement that the Buyer first obtain a Return Authorization number from Broadcast Tools, that the Buyer furnish proof of purchase in the form of an invoice and/or receipt, and that the Buyer prepay all freight charges associated with any return of the item to Broadcast Tools using such freight service as Broadcast Tools reasonably may specify), Broadcast Tools will repair or replace the defective item, or will refund the purchase price paid by the Buyer for the item. Broadcast Tools shall have the exclusive right to choose between these alternative remedies.

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