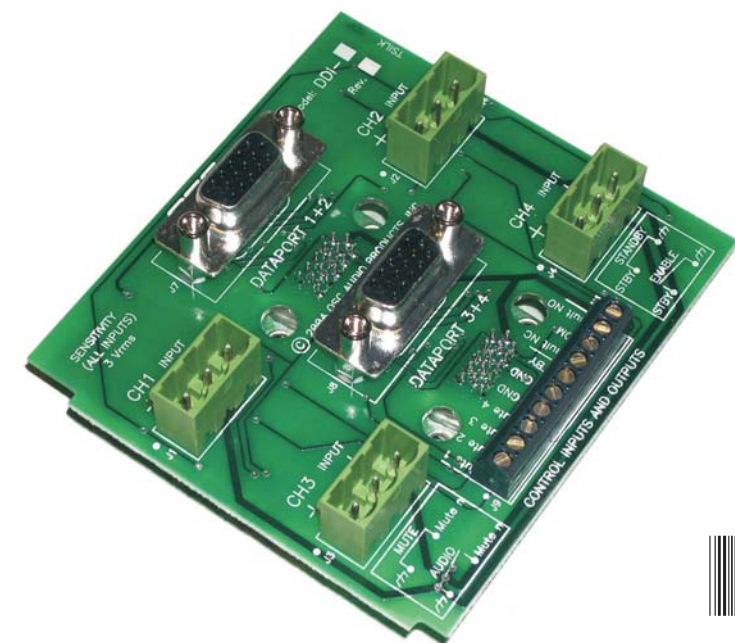




# DDI-9 and DDI-10 DataPort Accessory Card

## INSTALLATION GUIDE



▼ DDI-9

▼ DDI-10



# Instructions for the DDI-9 and DDI-10 DataPort Accessory Cards

## I. INTRODUCTION

The DDI-9 and DDI-10 DataPort Accessory Cards are designed for use with QSC's four-channel CX and DCA amplifiers. Both provide a relay-switched contact closure and opening if the amplifier fails, shuts down, or is turned off, as well as means to remotely switch the amplifier on or into standby with a remote pair of switch contacts. For inputs, both also provide both DataPort and Phoenix Connector "Eurostyle" pluggable connectors.

The DDI-9 also allows muting of the amplifier's four inputs, either individually or in groups, using remote switch contact closures (Figure 1).

The DDI-9 or DDI-10 card mounts onto the two DataPort connectors on the back of the amplifier and secures to the amplifier with four screws. The card is powered by the amplifier through the DataPort.

To guard against oxidation, corrosion, or contamination, the circuit board is treated with non-toxic protectants. Therefore, it may have a slight odor and a slightly oily-feeling residue. Do not wash the protectant off the circuit board.

### CHANNEL MUTING

With a DDI-9, any of the four inputs can be muted by making an electrical connection between the appropriate channel mute terminal and the ground terminal. This allows you to use switches mounted remotely from the amplifier to mute channels. You can mute and unmute multiple channels simultaneously with one switch by tying their respective connections together to the single pair of switch contacts (Figure 2).

### ON/OFF CONTROL

A switch closure between the ground and the standby terminals will put the amp's power supply in standby. Opening the closure will restart the power supply, with no inrush current surge.

### INPUTS

For inputs, the DDI-9 or DDI-10 offer both Phoenix Connector "Eurostyle" pluggable headers and DataPort connections. The DataPort connections are fully compatible with QSCControl, Basis, and DataPort accessories such as the DSP-3 and DSP-4.

### AMPLIFIER FAULTS

There are three connections for the amplifier fault indication output: Fault NC (closes on fault), Common, and Fault NO (opens on fault). When the amplifier is operating normally, the relay connects the NO terminal to the common and the NC terminal is open.

Any time the amplifier shuts down, is turned off, goes into protect, or otherwise fails, the relay will close the NC terminal and open the NO. This can be used for many purposes, including turning on a backup amplifier if the main one fails (Figure 3).

## II. INSTALLATION

The DDI-9 kit (QSC part # SG-000513-00) includes these items:

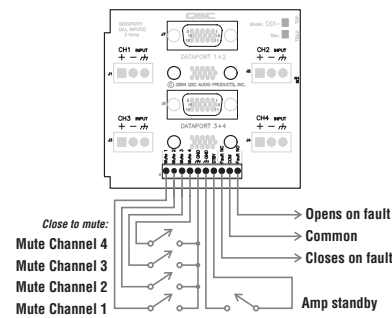
- DDI-9 board**
- Four #4-40 x 1/4" black screws**
- Installation guide**

The DDI-10 kit (QSC part # SG-000514-00) includes these items:

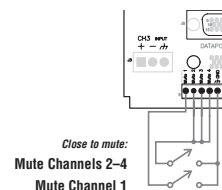
- DDI-10 board**
- Four #4-40 x 1/4" black screws**
- Installation guide**

Use this procedure to install the DDI-9 or DDI-10:

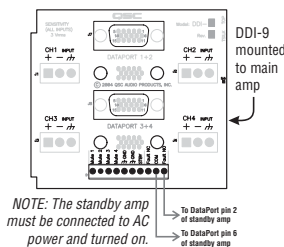
1. Turn off the amplifier.
2. Plug the card into the amplifier's DataPorts. Use the four screws on each side of the DataPorts to secure it; do not over-tighten them.
3. To attach wires to the DDI-9 or DDI-10 terminal strip, strip about 5 mm (0.2") of insulation from the wire. Twist the exposed wire strands together and make sure there are no stray ones. Turn the screw on the terminal counterclockwise until you can fully insert the wire end into the terminal. Turn the screw clockwise until the terminal clamps the wire securely. Repeat for all the wires needed.
4. The amplifier is ready for use.



**Figure 1.** The DDI-9 and its control/monitoring connections. The DDI-10 has the same standby and fault features, but no channel muting.



**Figure 2.** Two or more channel mute connections may be tied together to the same switch contacts.



**Figure 3.** Using the DDI-9 or DDI-10 to activate a backup amplifier.

| <b>DDI9 and DDI-10 Specifications</b> |                           |
|---------------------------------------|---------------------------|
| Input sensitivity (CX models)         | 3.4 volts rms (+12.8 dBu) |
| Input sensitivity (DCA models)        | 3.2 volts rms (+12.3 dBu) |
| Relay contact rating                  | 30 volts, 2 amperes       |

## III. WARRANTY AND DISCLAIMERS

**QSC Audio Products, Inc.** is not liable for any damage to speakers, amplifiers, or any other equipment that is caused by negligence or improper installation and/or use of the DDI-9 or DDI-10 DataPort Accessory Card.

### PRODUCT WARRANTY

QSC Audio Products, Inc. ("QSC") guarantees its products to be free from defective material and / or workmanship for a period of three (3) years from date of sale, and will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use - provided the unit is returned to our factory or one of our authorized service stations via pre-paid transportation with a copy of proof of purchase (i.e., sales receipt). This warranty provides that the examination of the return product must indicate, in our judgment, a manufacturing defect. This warranty does not extend to any product which has been subjected to misuse, neglect, accident, improper installation, or where the date code has been removed or defaced. QSC shall not be liable for incidental and/or consequential damages. This warranty gives you specific legal rights. This limited warranty is freely transferable during the term of the warranty period.

The customer may have additional rights, which vary from state to state.

In the event that this product was manufactured for export and sale outside of the United States or its territories, then this limited warranty shall not apply. Removal of the serial number on this product, or purchase of this product from an unauthorized dealer, will void this limited warranty.

Contact us at 800-772-2834 (USA only) or +1 (714) 957-7150, or visit our Web site at [www.qscaudio.com](http://www.qscaudio.com)

### TECHNICAL ASSISTANCE

If you suspect that your DDI-9 or DDI-10 card is defective, check your system configuration and connections to determine the origin of the problem. In many cases, incorrect audio interfacing, poor cabling, or other system level impairments are the causes of problems in audio systems. For technical assistance beyond the information given in this manual, contact the QSC Technical Services department.

### FACTORY SERVICE

If your DDI-9 or DDI-10 card ever requires factory service, contact the QSC Technical Services department for return instructions and a Return Authorization (RA) number. QSC is not responsible for products returned without a Return Authorization number.

### PRODUCT RETURN GUIDELINES

1. Pack the product securely for protection during shipment. QSC will provide factory packaging free of charge, on request.
2. Include a copy of the sales receipt, your name, return address, phone number, and a description of the problem.
3. Call QSC Technical Services department for a Return Authorization number.
4. Write the Return Authorization number on the outside of the shipping package.
5. Ship the product prepaid to QSC Audio Products. We recommend United Parcel Service (UPS).

### QSC Technical Services

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+1 (714) 754-6175

**Fax:** +1 (714) 754-6173

**Web:** [www.qscaudio.com](http://www.qscaudio.com)

### QUALIFIED SERVICE CENTERS

QSC maintains a service center network for your convenience. If you choose to return your product to a local service center and need a referral, contact QSC Technical Services department. Accessories, input modules, and other peripheral QSC products must be returned to the factory for service.

### INTERNATIONAL SERVICING

For QSC products purchased outside the United States, refer service to the distributor or dealer from which the product was purchased. There are numerous service centers in many countries. Your dealer, distributor, or QSC Technical Services can refer you to a service center in your country.