

# JAZ-ADP-GPIO Adapter and JAZ-CBL-DB15 Accessory Cable Instructions

## JAZ-ADP-GPIO Adapter

This accessory converts the 20-pin GPIO connector on Jaz DPUs manufactured on January 1, 2008 to the mini-HDMI connector used by the Jaz DPU GPIO (Jaz DPUs manufactured after January 1, 2008). The mini-HDMI connector provides additional functionality such as triggering.

### Note

In addition to the mini-HDMI connector provided on the JAZ-ADP-GPIO Adapter, additional firmware is necessary to use some of the new functions. Upgrading this firmware may require an RMA to return the unit to the factory as shown below:

<b>Module</b>	<b>Firmware Version</b>	<b>Field Upgradeable?</b>
DPU Blackfin	DPU-GPIO ulmage 22-SEP-09 or newer	Yes
DPU FPGA	0x0085 or newer	No
Spectrometer FPGA	0x0093 or newer	No

## Attaching the JAZ-ADP-GPIO Adapter

### ► Procedure

1. Unpack the connector. Your package should contain the following:

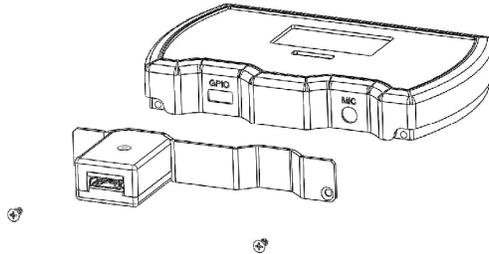
- One JAZ-ADP-GPIO



- Four 2-56 x 3/16" Phillips head screws to attach the adapter to the DPU module in your Jaz stack. (Only two screws are needed; two extra screws are provided.)

**JAZ-ADP-GPIO and JAZ-CBL-DB15 Instructions**

2. Locate the DPU module in your Jaz stack.
3. Remove the screws currently attached to the DPU front panel
4. Use the new screws provided to attach the adapter to the DPU module as shown below:



5. Follow the instructions in [Connecting the Accessory Cable](#) to attach the accessory cable as shown below:



## Cable Pinouts

Pin #	Function	Description
1	GND	Ground
2	RX	RS-232 Data In
3	TX	RS-232 Data Out
4	GND	Ground
5	EXT_TRIG_IN	3.3v Logic
6	LAMP_ENABLE	GP_OUT
7	SCL1	OOI use only. See the <a href="#">Jaz Data Sheet</a> for more information.
8	CONT_STROBE	(3.3v Logic)

Pin #	Function	Description
9	SINGLE_STROBE	(3.3v Logic)
10	SDA1	OOI use only. See the <a href="#">Jaz Data Sheet</a> for more information.
11	SPI_CLK	OOI use only. See the <a href="#">Jaz Data Sheet</a> for more information.
12	SPI_CS	OOI use only. See the <a href="#">Jaz Data Sheet</a> for more information.
13	MOSI	OOI use only. See the <a href="#">Jaz Data Sheet</a> for more information.
14	MISO	OOI use only. See the <a href="#">Jaz Data Sheet</a> for more information.
15	GPIO4	(3.3v Logic)
16	GPIO5	(3.3v Logic)
17	GPIO6	(3.3v Logic)
18	5V_GPIO	5 volt accessory power
19	GPIO7	(3.3v Logic)

## JAZ-CBL-DB15 Accessory Cable

The Ocean Optics JAZ-CBL-DB15 is an accessory cable for the Jaz DPU modules that contain the DPU GPIO (DPUs dated after January 1, 2008) and DPUs that have the JAZ-ADP-GPIO attached. This 12-inch cable connects the 19-pin mini-HDMI accessory connector on the Jaz DPU GPIO (or the JAZ-ADP-GPIO Adapter) and terminates in a DB15 connector.



## Connecting the Accessory Cable

### ► Procedure

1. Connect the accessory cable to the 19-pin mini-HDMI connector on the Jaz DPU module.



Accessory Connector

2. Connect the other end of the cable (with the DB15 connector) to the accessory being used.



DB15 Connector

## Cable Pinouts

MHDMI PIN #	1	2	3	5	5	6	7	8	9	10	15	16	17	18	19
DB15 PIN #	10	6	7	4	5	13	12	2	1	11	15	14	8	3	9

Connector pinout diagrams: (left) DB15 (right) MHDMI

# Specifications

Specification	Value
Cable length	305 mm (12 inches)
Internal conductors	15 x 26 AWG stranded copper Rating: 30 Volts
Jacketing	PVC, black Rating: 300 Volts, VW-1
Connectors	Molded, latching 19-pin MHDMI Molded, superthin SVGA HD15, female
DB15 Mounting	2 x 4-40 thumbscrews 2 x 4-40 hex standoffs

