

REVISIONS			
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		DWN/CHK	DATE 07/28/2014	<b>TIDA-00293</b>  <b>DLP 3D Printer</b>  <b>LightCrafter Trigger Cable</b>	
		SYS ENGR			
	0314CP	MANU			
NHA	USED ON	QA		SIZE <b>A</b>	DRAWING NO 2514184
APPLICATION		APVD		SCALE NONE	REV <b>A</b>
				SHEET 1 OF 3	

# **TIDA-00293 LightCrafter Trigger Cable Assembly**

## **1. Scope**

The purpose of this document is to establish the assembly requirements for the cable between the LightCrafter 4500 and the MSTP microcontroller cape.

## **2. Related Documents**

DLP LightCrafter 4500 User's Guide (DLPU011)

- [www.ti.com/lit/dlpu011](http://www.ti.com/lit/dlpu011)
- Read Section 7.2 "Output Trigger Connectors" (page 53)

BeagleBone MSTP Cape Schematic

- ../Design Files/BEAGLEBONE MSTP CAPE/BeagleBone MSTP Cape Schematic.pdf
- J4 RS232 I/O Channel A connector (page 2)

## **3. Connections**

Connect the respective LightCrafter 4500 output trigger pins to the corresponding BBB MSTP header.

<b>Connection</b>	<b>LCr4500 J11 Pin</b>	<b>BBB MSTP Cape J9</b>
TRIGGER 1 IN	2	29
GND	3	1
VCC	4	3
TRIGGER 2 IN	5	30

## **4. Bill Of Materials**

The following table lists the components necessary to construct the LightCrafter Trigger cable.

<b>Description</b>	<b>Manufacturer</b>	<b>Part Number</b>	<b>Qty</b>
LCr4500 Trigger Input Connector	Molex	51021-0600	1
LCr4500 Trigger Input Connector Crimps	Molex	50079-8100	4
BBB MSTP Cape Connector	Sullins Connector Solutions	PREC040SAAN-RC (snap off 4 positions)	1

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