

## Advantech AE Technical Share Document

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<b>Category</b>	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	<b>Related OS</b>	N/A
<b>Abstract</b>	Why the DP to HDMI converter can't be used on UNO series?		
<b>Keyword</b>	Display Port / UNO / DP++ / HDMI		
<b>Related Product</b>	UNO-2362G / UNO-1372G / UNO-2484G / UNO-2372G		

### ■ **Problem Description:**

The user uses a passive DP to HDMI converter on the UNO-2484G and the screen cannot be displayed. The interface of UNO side is Display Port, the interface of LCD side is HDMI.

### ■ **Problem analysis**

DisplayPort has a function known as “Dual-Mode” or “DisplayPort++/DP++” which allows other signal types to be passed through the DisplayPort connector, including TMDS which is the signaling required by HDMI and DVI displays. According to above reason, there are two main types of DisplayPort converter in the market:

#### *Active Adapters:*

Active adapters use additional chips to make the conversion inside the adapter, regardless of whether the source supports DP++. This means that active adapters are more expensive than passive adapters.

#### *Passive Adapters:*

Passive adapters are less expensive since they do not need to include additional chips. A quick way to check whether you can use a passive adapter is to see if the DisplayPort or Mini DisplayPort source has the DP++ symbol above it.

### DisplayPort Certification Compliance



Look for the DisplayPort logo when you purchase new electronic devices such as computers, laptops and digital displays. The DisplayPort logo ensures that you'll get the high performance standard for true digital picture and digital audio. A product with DisplayPort has the potential to deliver the highest performance, the fastest refresh rates and the greatest color depth available.



### DisplayPort Icon

The DisplayPort icon is used on electronic devices and DisplayPort cables to make it easy to recognize the DisplayPort connection. It can also be found on packaging of products that follow the DisplayPort standard, but have not been tested for compliance by the DisplayPort working group.



### DisplayPort Multi-mode Icon

The DisplayPort Multimode icon indicates that the product is capable of working with both DVI and /or DisplayPort technology. Look for it on product packaging or brochures to ensure multi-mode functionality.

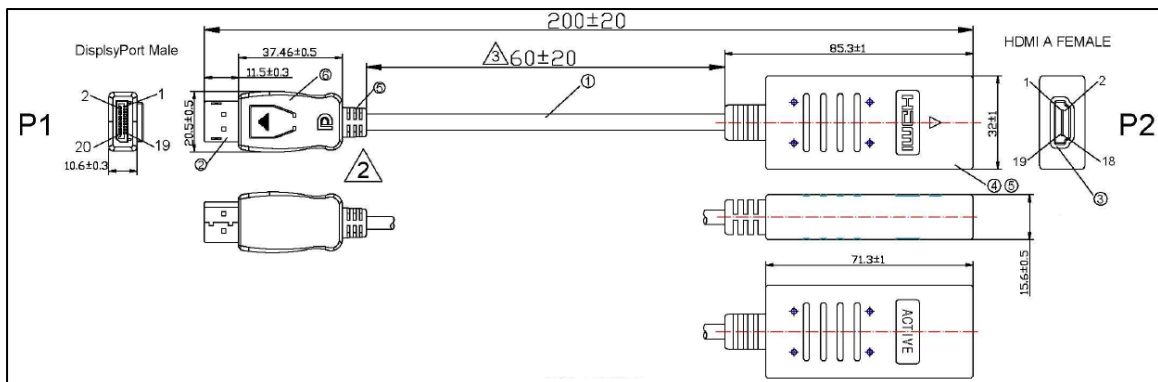
# **Brief Solution:**

Based on original design UNO series does not support DP ++ DisplyPort so user has to use the ACTIVE converter. If the user does not know where to buy the active converter, we offer the following converter

P/N of DP to HDMI converter: 1700022210-01

P/N of DP to DVI cable: 1700024952-01

## DP to HDMI converter



## DP to DVI cable

