

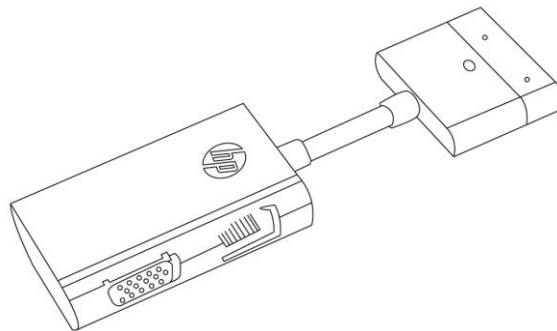
### Technical Specifications

#### HP Cables and Connectors

##### Models

HP Dock Connector to Ethernet & VGA Adapter	G7U78AA
HP HDMI to VGA Adapter	H4F02AA
HP HDMI to DVI Adapter	F5A28AA
HP DisplayPort to HDMI 1.4 Adapter	F3W43AA
HP DisplayPort to DVI SL Adapter	F7W96AA
HP DisplayPort to VGA Adapter	F7W97AA

#### HP Dock Connector to Ethernet & VGA Adapter (G7U78AA)



Expand what you can do with your HP EliteBook Folio 1040 G1 and G2 by using its side dock connector to add Ethernet and VGA connectivity with a single handy adapter.

- Connect the adapter to the notebook's side docking port to quickly add RJ-45 and VGA ports.
- Store the compact adapter in your carrying case alongside your notebook.
- Get a one-year parts replacement limited warranty.

<b>Environmental Data</b>	<b>Operating Temperature</b> -25° to +85° 85%RH, without loss of function. Storage temperature: -25° to +70° 85%RH, without loss of function.
<b>RJ45 Durability</b>	The test is performed in accordance with EIA-364-09C.Total:2000 cycles. The speed is 500 cycles per hour.
<b>VGA Durability</b>	The test is performed in accordance with EIA-364-09C.Total:1000 cycles. The speed is 500 cycles per hour.
<b>Test Condition</b>	<b>Temperature:</b> 15° to 35° <b>Relative Humidity:</b> 40% to 70% <b>Atmospheric pressure:</b> 650 to 800 millimeters (25.6 to 31.5 inches) of Mercury.
<b>Dimensions</b>	5.91 x 2.36 x 0.59 in 150 x 60 x 15 mm
<b>Weight Unpackaged</b>	0.081 lb (37 g)
<b>Compatibility</b>	HP EliteBook Folio 1040 G1

### Technical Specifications

#### HP HDMI to VGA Adapter (H4F02AA)



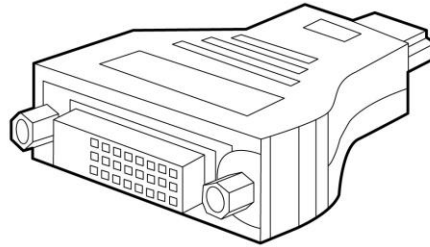
**NOTE :** Images may differ from actual adapter

The HP HDMI to VGA Adapter allows you to convert the HDMI output port on your HP Business Notebook PC to an analog VGA input so you can connect to an external VGA display.

<b>Host Interface</b>	HDMI	
<b>Video Interface</b>	VGA	
<b>Connectors</b>	<b>Video output</b>	VGA male connector
	<b>Host upstream link</b>	HDMI male connector
<b>Supported Resolutions</b> (external display)	600 x 800 768 x 1280 1024 x 1280 1050 x 1680 1080 x 1920	
<b>Operating Temperature</b>	0-40°C (32-104° F)	
<b>Storage Temperature</b>	-10~70°C (14~158 °F)	
<b>System Requirements</b>	<b>Software</b>	Windows 7 and above
<b>Environmental</b>	<b>EMC</b>	FCC Part 15 Class B, IC ICES-003, CE (EN55022, EN61000, EN55024), BSMI, UL, C-tick, VCCI, KC
	<b>RoHS</b>	RoHS Compliant
<b>Components</b>	HP HDMI to VGA Adapter, Warranty Card, and Quick Installation Guide	
<b>Compatibility</b>	<ul style="list-style-type: none"><li>• HP EliteBook Folio 1020 G1</li><li>• HP EliteBook Folio 1040 G3</li><li>• HP EliteBook 1030 G1</li><li>• HP ZBook Studio G3, G4</li><li>• HP ZBook 15, 17 G3, G4</li><li>• HP ZBook x2 G4</li><li>• HP Spectre Pro x360 G1, G2</li><li>• HP EliteBook x360 1030 G2</li></ul>	

#### HP HDMI to DVI Adapter (F5A28AA)

### Technical Specifications



Maximize your HP Business Notebook's available ports with the HP HDMI to DVI Adapter. Convert your HDMI output to DVI for quick and easy connection to an external display.

#### Features

- Input : HDMI, support HDMI up to ver 1.4a
- Output : DVI-D with 24+1 pins connector

**Operating Systems Supported** Support Windows: Windows 7 & 8;

Use system default driver

**Power Source** Standard HDMI

#### Temperature & Humidity Operating

The HDMI to DVI connector adapter shall perform to specification when exposed to ambient temperatures of 410F to 950F (50C to 350C), 8%~ 80% RH (non-condensing).

#### Storage

The HDMI to DVI connector adapter shall be able to withstand prolonged exposure to temperatures from 410F to 1040F (50C to 400C), 8%~ 80% RH (non-condensing) encountered during transportation or storage.

**Environmental Requirements** To meet WEEE/RoHS and HALOGEN FREE requirements, all materials must meet limits contained within the HP standard 011-0 general specification for the environment (GSE), A-5951-1745-1. The test method accepted only is IEC62321.

**Dimensions (LxWxH)** 2.29 x 1.61 x .59 in  
58.25 x 41 x 15 mm

**Weight Unpackaged** .05 lb (23 g)

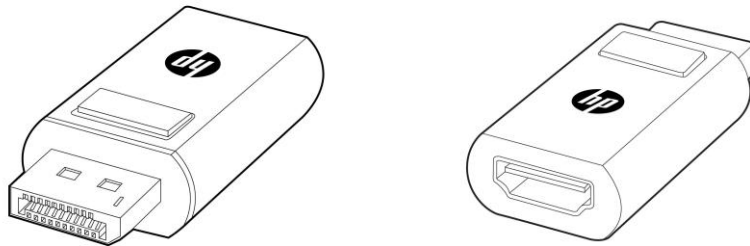
#### Compatibility

- HP ProBook 430 G1, 440 G0/G1, 445 G1, 450 G0/G1, 455 G1, and 470 G0/G1 Notebook PCs
- HP ProBook 4230s, 43xxs, 44xxs, 45xxs, 47xxs, and 4740s Notebook PCs
- HP Folio<sup>13</sup>, ProBook x2 410
- HP Envy 4
- HP Spectre<sup>XT</sup>, Spectre 13 Pro, Spectre x2
- HP ChromeBook 14
- HP 215, 240, 245, 250, 255, 340, 350, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs

### Technical Specifications

- HP ProBook 3125

## HP DisplayPort to HDMI 1.4 Adapter (F3W43AA)



Make the most of the available ports on your HP Business Notebook by converting its DisplayPort output to HDMI for quick and easy connection to a range of multimedia devices.

#### Product Features

- Compliant to HDMI 1.4a specification up to 3.0 Gbps
- Support 4K x 2K & 3D video formats over HDMI
- Support DisplayPort all 4 levels of output and all 4 levels of pre-emphasis

#### Video Resolution Supported

Resolution	Refreshing Rate	Pixel Frequency
1920x1200	60Hz	154MHz
1600x1200	60Hz	162MHz
3840x2160	30Hz	297MHz
1920x1080	60Hz	148.5MHz

#### NOTES:

All video timings within four lane DisplayPort bandwidth are supported

Your computer must support DP1.2 with DP++ to benefit from 4K resolution

#### Normal operating conditions

**Parameter**  
HDMI source  
level shifter

**Ambient Temperature**  
Type 220 Max 300

**Min 0 C Max 40 C**  
Unit mA

#### Electronics Character SPEC

##### Input Voltage

3.3V ± 10%

3.3V 230mA

##### Output

5V ± 10%

Max 90mA

##### Power consumption

760mW

Max

##### Power down current

8mA

Max

##### EMI

Standard Limit line

FCC Part15 Class B

##### ESD

AIR ± 4KV  
Contact ± 2KV

IEC61000-4-2

##### Compliance

DisplayPort 1.1a / DVI 1.0

##### Dimensions (LxWxH)

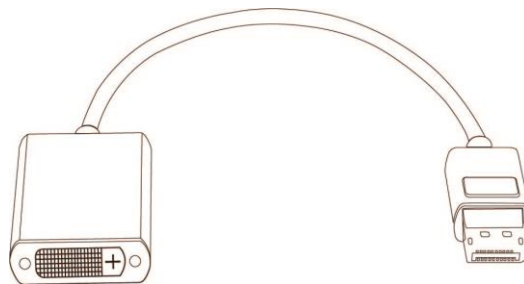
1.98 x 0.94 x 0.50 in  
50.28 x 24.00 x 12.80 mm

### Technical Specifications

**Weight Unpackaged** 0.030 lb (13.5 g)

- Compatibility**
- HP ProBook 640 G2, 650 G2, 645 G2, 655 G2
  - HP EliteBook 820 G2/G3, 840 G2/G3, 850 G2/G3
  - HP EliteBook 725 G2/G3, 745 G2/G3, 755 G2/G3
  - HP ZBook 17 G2, 15 G2, 15u G2/G3, 14 G2
  - HP EliteBook Folio 1040 G2
  - HP EliteBook Revolve 810 G3

### HP DisplayPort to DVI SL Adapter (F7W96AA)



#### Highest Video Resolution

**Resolution Supported** 1920x1200(RB) 1600x1200

**Refreshing Rate**

**Reduced Blanking** 60Hz 60Hz

**Pixel Frequency** 154MHz 162MHz

**Ambient Temperature** 0-40°C

**DVI output currents** max 80mA

**Electronics Character** **Input Voltage** 3.3V @100mA

**SPEC** **Output** 5V@ MAX 80mA

**Power consumption** 330mW

**Power down current** 8mA

**Standard Limit line** **FCC Part15 Class B** Limit line

**ESD** AIR +/-8KV, Contact +/-4KV

**Dimensions** Cable Length: 7.99 inches, DP Connector: 1.04x0.79x0.504 inches, DVI Connector: 1.77x1.77x0.65 inches

**Dimensions** Cable Length (From tip to tip): 203 mm, DP Connector: 26.5x20x12.8mm,

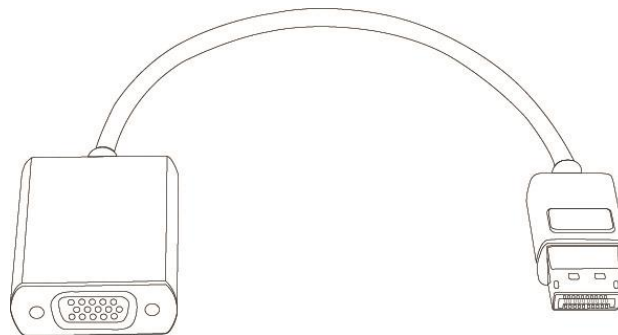
**LxWxH** DVI Connector: 45 x 45 x 16.5 mm

**Weight** 0.106 Lb (48 g)

**Unpackaged**

### Technical Specifications

#### HP DisplayPort to VGA (F7W97AA)



<b>Highest Video Resolution Supported</b>	<b>Resolution</b>	1920x1200	1600x1200
	<b>Refreshing Rate</b>	60Hz	60Hz
	<b>Reduced Blanking</b>	RB	RB
	<b>Pixel Frequency</b>	154MHz	162MHz
<b>Parameters</b>	<b>Max Luminance Voltage</b>	<b>Min</b> .665 Volts	<b>Max</b> 0.770 Volts
	<b>Min Luminance Voltage</b>	<b>Min</b> 0	
	<b>Video Channel Rise/Fall Time (Max)</b>		25% ns
	<b>Maximum Settling Time after overshoot/undershoot</b>		30%
<b>Electronics Character SPEC</b>			
<b>Input Voltage</b>	3.3V ± 10%		3.3V 175mA
<b>Output</b>	5V ± 10%		Max 80mA
<b>Power consumption</b>	575mW		Max
<b>Power down current</b>	50mA		Max
<b>EMI</b>	<b>Standard Limit line</b>		FCC Part15 Class B
<b>ESD</b>	<b>AIR</b>	± 8KV	IEC61000-4-2
	<b>Contact</b>	± 4KV	
<b>Dimensions (LxWxH)</b>	Cable Length: 7.99 inches, DP Connector: 1.04x0.79x0.504 inches, DVI Connector: 1.99x1.42x0.53 inches		
	Cable Length: 203 mm, DP Connector: 26.5x20x12.8mm, DVI Connector: 50.5x36x13.5mm		
<b>Weight Unpackaged</b>	0.093 lb ( 42 g)		

#### Service and support

Each accessory carries a one-year limited warranty. Technical support is available seven days a week, 24 hours a day, by phone, as well as online support forums. Certain restrictions and exclusions apply.

### Summary of Changes

Date of change	Version History	Change	Description of change
	From v1 to v2		
April 4, 2016	V5 to v6	Added	Note to F3W43AA resolution
September 12, 2016	V6 to v7	Updated	HP DisplayPort to HDMI 1.4 Adapter (F3W43AA) Video Resolution Supported and compatibility
August 16, 2017	V7 to V8	Updated	Add image for HDMI to VGA adapter (H4F02AA)

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