

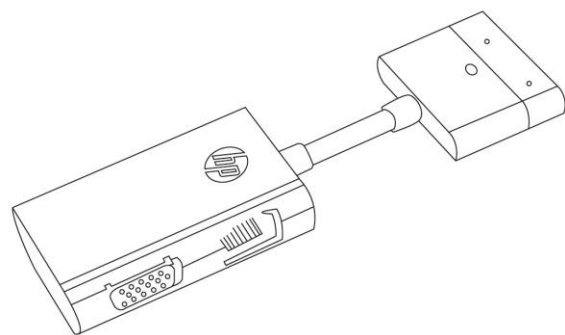
Technical Specifications

HP Cables and Connectors

Models

|                                                         |         |
|---------------------------------------------------------|---------|
| HP Dock Connector to Ethernet & VGA Adapter <b>New!</b> | G7U78AA |
| HP EliteFolio Ethernet & VGA Adapter                    | F3W44AA |
| 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 <b>New!</b>            | F7W96AA |
| HP DisplayPort to VGA Adapter <b>New!</b>               | F7W97AA |

HP Dock Connector to Ethernet & VGA Adapter (G7U78AA)



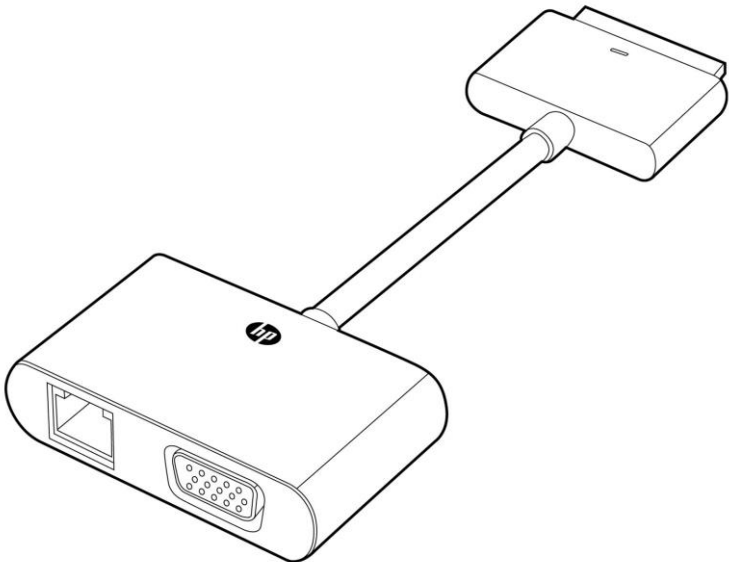
Expand what you can do with your HP EliteBook Folio 1040 G1 and G2 by using its side dock connector to add Ethernet and VGA connectivity with a single handy adapter.

- 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.

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

Technical Specifications

HP EliteFolio Ethernet & VGA Adapter (F3W44AA)



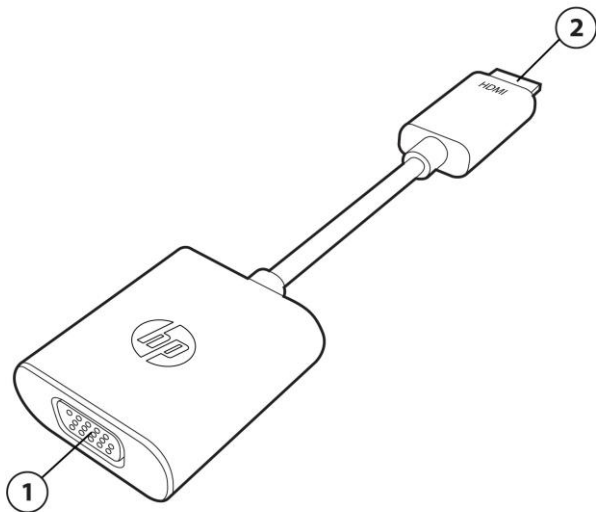
Expand what you can do with your HP EliteBook Folio 1040 G1 by using its side dock connector to add Ethernet and VGA connectivity with a single handy adapter.

- 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.

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

Technical Specifications

HP HDMI to VGA Adapter (H4F02AA)

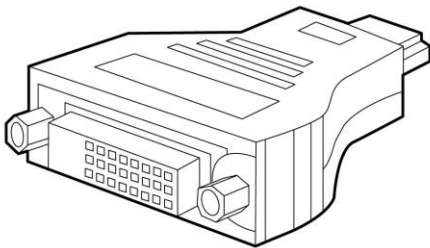


The HP HDMI to VGA Adapter allows you to convert the HDMI output port on your HP Business Notebook PC to an analog VGA input so you can connect to an external VGA display.

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                      |                                           |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <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><br>(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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Microsoft® Windows® 7 with Service Pack 1 (32-bit or 64-bit), Windows Vista® with Service Pack 1 (32-bit or 64-bit), Microsoft® Windows® XP Home or Professional with Service Pack 3 |                                           |
| <b>Mechanical</b>                                  | <b>Dimensions (H x W x L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Unpackaged:</b>                                                                                                                                                                   | 0.59 x 1.574 x 1.771 in (15 x 40 x 45 mm) |
|                                                    | <b>Weight</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Unpackaged:</b>                                                                                                                                                                   | 1.093 oz (31 g)                           |
| <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>Dimensions</b>                                  | 6.22 x 1.57 x 0.59 in<br>150.8 x40 x15 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                      |                                           |
| <b>Weight Unpackaged</b>                           | 0.088 lb (40 g)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                      |                                           |
| <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 Folio<sup>13</sup>, ProBook x2 410</li><li>• HP Envy 4</li><li>• HP Spectre<sup>XT</sup>, Spectre 13 Pro, Spectre x2</li><li>• HP ProBook 4230s, 43xxs, 44xxs, 45xxs, 47xxs, and 4740s Notebook PCs</li><li>• HP ProBook 430 G1, 440 G0/G1, 445 G1, 450 G0/G1, 455 G1, and 470 G0/G1 Notebook PCs</li><li>• HP 215, 240, 245, 250, 255, 340, 350, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs</li><li>• HP ProBook 5330m Notebook PC</li></ul> |                                                                                                                                                                                      |                                           |

Technical Specifications

HP HDMI to DVI Adapter (F5A28AA)



- 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

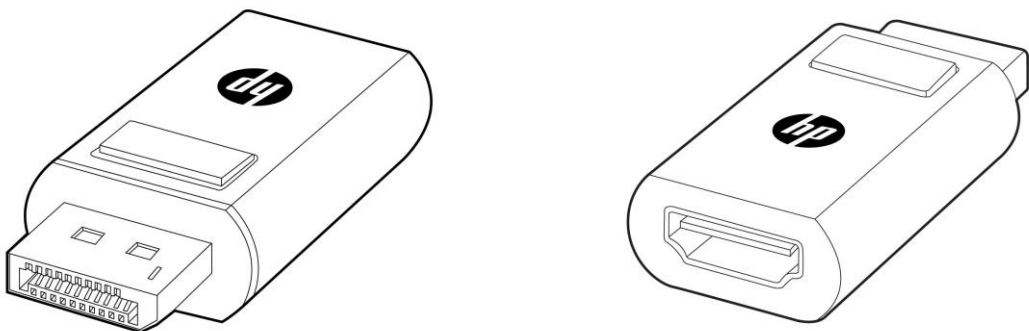
- Input : HDMI, support HDMI up to ver 1.4a
- Output : DVI-D with 24+1 pins connector

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Systems Supported | Support Windows: Windows 7 & 8;<br>Use system default driver                                                                                                                                                                                                                                                                                                                                                           |
| Power Source                | Standard HDMI                                                                                                                                                                                                                                                                                                                                                                                                          |
| Temperature & Humidity      | <b>Operating</b><br>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).<br><b>Storage</b><br>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<br>58.25 x 41 x 15 mm                                                                                                                                                                                                                                                                                                                                                                             |
| Weight Unpackaged           | .05 lb (23 g)                                                                                                                                                                                                                                                                                                                                                                                                          |
| Compatibility               | <ul style="list-style-type: none"><li>• HP ProBook 430 G1, 440 G0/G1, 445 G1, 450 G0/G1, 455 G1, and 470 G0/G1 Notebook PCs</li><li>• HP ProBook 4230s, 43xxs, 44xxs, 45xxs, 47xxs, and 4740s Notebook PCs</li><li>• HP Folio<sup>13</sup>, ProBook x2 410</li><li>• HP Envy 4</li><li>• HP Spectre<sup>XT</sup>, Spectre 13 Pro, Spectre x2</li><li>• HP ChromeBook 14</li></ul>                                      |

Technical Specifications

- HP 215, 240, 245, 250, 255, 340, 350, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs
- 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.

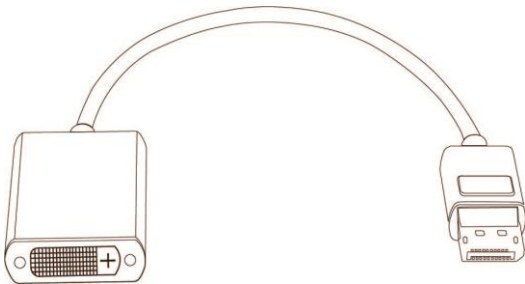
- Product Features**
- Compliant to HDMI 1.4a specification up to 3.0Gbps
  - Support 4K x 2K & 3D video formats over HDMI
  - Support DisplayPort all 4 levels of output and all 4 levels of pre-emphasis

|                                                                          |                                  |                            |                         |
|--------------------------------------------------------------------------|----------------------------------|----------------------------|-------------------------|
| <b>Highest Video Resolution Supported</b>                                | <b>Resolution</b>                | 1920x1200                  | 1600x1200               |
|                                                                          | <b>Refreshing Rate</b>           | 60Hz                       |                         |
|                                                                          | <b>Reduced Blanking</b>          | RB                         |                         |
|                                                                          | <b>Pixel Frequency</b>           | 154MHz                     | 162MHz                  |
| <b>NOTES:</b>                                                            |                                  |                            |                         |
| All video timings within four lane DisplayPort bandwidth are supported   |                                  |                            |                         |
| Your computer must support DP1.2 with DP++ to benefit from 4K resolution |                                  |                            |                         |
| <b>Normal operating conditions</b>                                       | <b>Parameter</b>                 | <b>Ambient Temperature</b> | <b>Min 0 C Max 40 C</b> |
|                                                                          | <b>HDMI source level shifter</b> | <b>Type 220 Max 300</b>    | <b>Unit mA</b>          |
| <b>Electronics Character SPEC</b>                                        |                                  |                            |                         |
| <b>Input Voltage</b>                                                     | 3.3V ± 10%                       |                            | 3.3V 230mA              |
| <b>Output</b>                                                            | 5V ± 10%                         |                            | Max 90mA                |
| <b>Power consumption</b>                                                 | 760mW                            |                            | Max                     |
| <b>Power down current</b>                                                | 8mA                              |                            | Max                     |
| <b>EMI</b>                                                               | Standard Limit line              |                            | FCC Part15 Class B      |
| <b>ESD</b>                                                               | AIR                              | ± 4KV                      | IEC61000-4-2            |
|                                                                          | Contact                          | ± 2KV                      |                         |
| <b>Compliance</b>                                                        | DisplayPort 1.1a / DVI 1.0       |                            |                         |
| <b>Dimensions (LxWxH)</b>                                                | 1.98 x 0.94 x 0.50 in            |                            |                         |

Technical Specifications

|                   |                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | 50.28 x 24.00 x 12.80 mm                                                                                                                                                                                                                                                                                                                                                    |
| Weight Unpackaged | 0.030 lb (13.5 g)                                                                                                                                                                                                                                                                                                                                                           |
| Compatibility     | <ul style="list-style-type: none"><li>• HP ProBook 640 G1, 645 G1, 650 G1, 655 G1</li><li>• HP ProBook 6470b, 6475b, 6570b</li><li>• HP EliteBook 820 G1, 840 G1, 850 G1</li><li>• HP EliteBook 2170p, 2570p, 8470p, 8570p, 8470w, 8570w, 8770w</li><li>• HP EliteBook Folio 9470m, 1040, Revolve 810 G1/G2</li><li>• HP ZBook 14, 15, 17</li><li>• HP mt40, mt41</li></ul> |

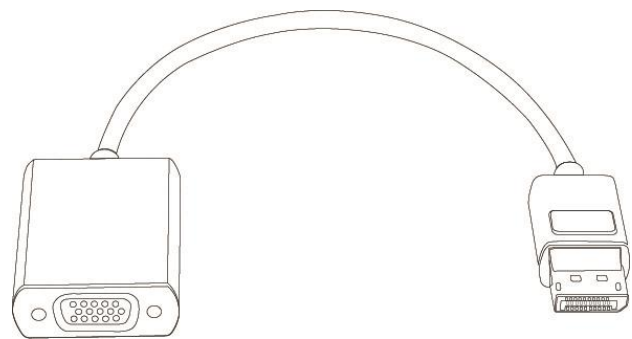
HP DisplayPort to DVI SL Adapter (F7W96AA)



|                          |                                                                                                       |                          |
|--------------------------|-------------------------------------------------------------------------------------------------------|--------------------------|
| 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 |                          |
| LxWxH                    |                                                                                                       |                          |
| 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               |                                                                                                       |                          |

HP DisplayPort to VGA (F7W97AA)

Technical Specifications



|                                           |                                                                                                       |                       |                        |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------|------------------------|
| <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 Setting 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<br>1 to 2 | Change | Description of change      |
|----------------|-------------------|--------|----------------------------|
| April 4, 2016  | Version<br>5 to 6 | Added  | Note to F3W43AA resolution |
|                |                   |        |                            |
|                |                   |        |                            |
|                |                   |        |                            |
|                |                   |        |                            |

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