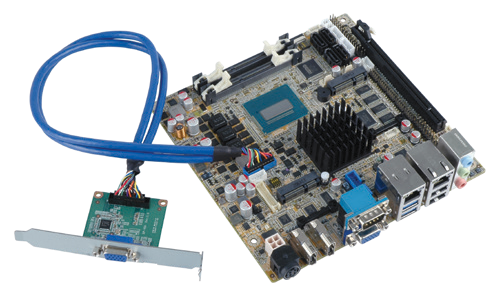
**IEI iDP Introduction**

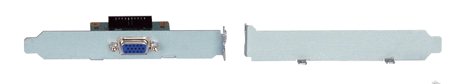
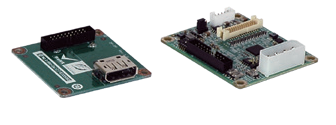
**iDP (IEI Internal DisplayPort)**

## The iDP connector is provided on the IEI products. Through the IEI iDP converter cards, the iDP connector can support different display specifications, such as VGA, HDMI, DVI-D and LVDS.



iDP

**Flexible Display Output Options**



iDP converter cards with brackets

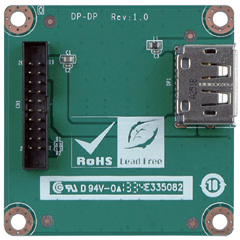
**Easy Installation on the Chassis**

|  |  |  |  |
| --- | --- | --- | --- |
| **iDP Supported Models** | | | |
| HPCIE-C236 | IMBA-Q170-i2 | KINO-DH110 | WAFER-AL |
| HPCIE-Q710 | IMBA-H110 | KINO-AQ170 | WAFER-ULT3/ULT4 |
| SPCIE-C236 | IMBA-Q870-i2 | KINO-DH810 | WAFER-BTW2 |
| PCIE-Q170 | IMBA-C2260-i2 | KINO-DQM871-i1 | WAFER-BT-i1 |
| SPCIE-C2260-i2 | IMB-H110 | KINO-ABT-i2 | WAFER-ULT/ULT2-i1 |
| PCIE-Q870-i2 | IMB-Q870-i2 | NANO-AL/ALW2 | WAFER-KBN-i1 |
| IMBA-C2360-i2 | IMB-H810-i2 | NANO-ULT3 |  |

***DisplayPort Expansion Board (for IEI iDP Connector), RoHS***

**DP-DP-R10**

***Features***

* DisplayPort to DisplayPort output
* Resolution support up to 1920x1200

# *Specifications*

Display Input: 1 x IEI iDP connector Display Output: 1 x DisplayPort Temperature: -20°C ~ 60°C Humidity: 5 ~ 95% non-condensing

Dimensions: 50 mm x 50 mm

***Dimensions (mm)***

# *Packing List Ordering Information*

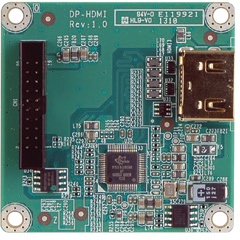
|  |  |
| --- | --- |
| 1 x DP-DP expansion board | 1 x QIG |
| 1 x IEI iDP connector cable, 450 mm length | |

|  |  |
| --- | --- |
| Part No. | Description |
| DP-DP-R10 | DisplayPort expansion board (for IEI iDP connector), RoHS |



***DisplayPort to HDMI 1.3a Converter Board (for IEI iDP connector), RoHS***

**DP-HDMI-R10**

***Features***

* DisplayPort to HDMI 1.3a output
* Support up to 1920x1200 resolution

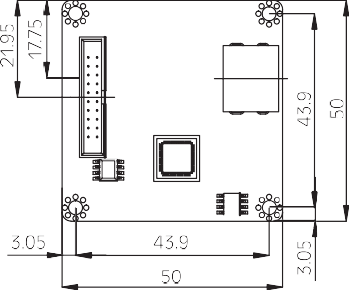
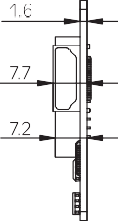
# *Specifications*

Display Input: IEI iDP connector Display Output: 1 x HDMI 1.3a Display IC: Parade - PS161 (DP to HDMI 1.3a)

Temperature: -10°C ~ 60°C Humidity: 5 ~ 95% non-condensing

Dimensions: 50 mm x 50 mm

***Dimensions (mm)***

# *Packing List Ordering Information*

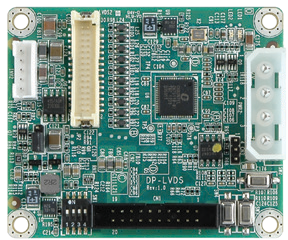
|  |  |
| --- | --- |
| 1 x DP-HDMI converter board | 1 x QIG |
| 1 x Internal DisplayPort cable, 450 mm length | |

|  |  |
| --- | --- |
| Part No. | Description |
| DP-HDMI-R10 | DisplayPort to HDMI 1.3a converter board (for IEI iDP connector), RoHS |



***DisplayPort to 24-bit Dual-channel LVDS Converter Board (for IEI iDP Connector), RoHS***

**DP-LVDS-R10**

***Features***

* DisplayPort to LVDS output
* Supports 24-bit dual-channel up to 1920x1200

# *Specifications*

Display Input: 1 x IEI iDP connector

Display Output: 1 x LVDS 24-bit dual-channel Display IC: Chrontel - CH7511B (DP to LVDS) Temperature: -10°C ~ 60°C

Humidity: 5% ~ 95 non-condensing

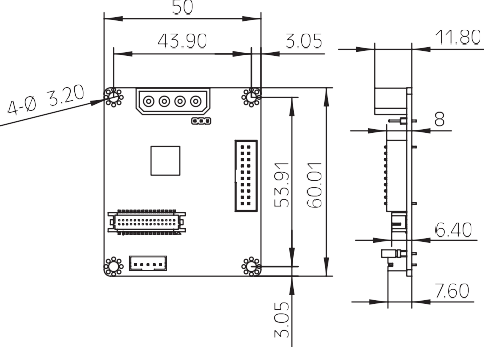
Dimensions: 60 mm x 50 mm

***Dimensions (mm)***

# *Packing List Ordering Information*

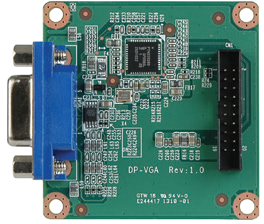
|  |  |
| --- | --- |
| 1 x DP-LVDS converter board | 1 x QIG |
| 1 x Internal DisplayPort cable, 450 mm length | |

|  |  |
| --- | --- |
| Part No. | Description |
| DP-LVDS-R10 | DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector), RoHS |



***DisplayPort to VGA Converter Board (for IEI iDP Connector), RoHS***

**DP-VGA-R10**

***Features***

* DisplayPort to VGA output
* Support up to 1920x1200 resolution

# *Specifications*

Display Input: 1 x IEI iDP connector Display Output: 1 x VGA

Display IC: NXP - PTN3392 (DP to VGA)

Temperature: -10°C ~ 60°C Humidity: 5% ~ 95 non-condensing

Dimensions: 50 mm x 50 mm

***Dimensions (mm)***









# *Packing List Ordering Information*

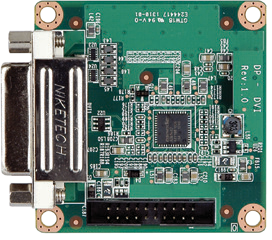
|  |  |
| --- | --- |
| 1 x DP-VGA converter board | 1 x QIG |
| 1 x Internal DisplayPort cable, 450 mm length | |

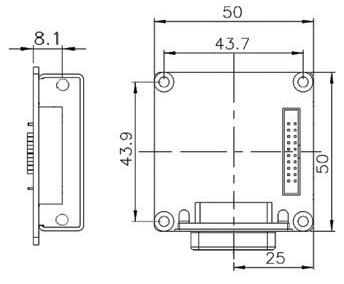
|  |  |
| --- | --- |
| Part No. | Description |
| DP-VGA-R10 | DisplayPort to VGA converter board (for IEI iDP connector), RoHS |

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |
|  |
|  |
|  | |

***DisplayPort to DVI Converter Board (for IEI iDP Connector), RoHS***

**DP-DVI-R10**

***Features***

* DisplayPort to DVI output
* Support up to 1920x1200 resolution

# *Specifications*

Display Input: 1 x IEI iDP connector Display Output: 1 x DVI

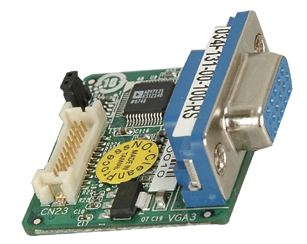
Display IC: Parade - PS161 (DP to HDMI / DVI)

Temperature: -10°C ~ 60°C Humidity: 5% ~ 95 non-condensing

Dimensions: 50 mm x 50 mm

***Dimensions (mm)***

# *Packing List*



**LVDS-VGA-R10**

***Single-channel LVDS to VGA Converter Board (Support IEI Model Only)***

***Dimensions (mm)***

**36.07mm**

**12.50mm**

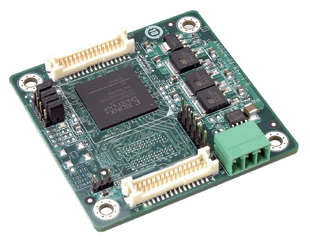
***Features***

**32.51mm**

|  |  |
| --- | --- |
| 1 x DP-DVI converter board | 1 x QIG |
| 1 x Internal DisplayPort cable, 450 mm length | |

* Provide 2nd VGA option for dual VGA display
* Resolution adjusted by BIOS: Support 1024x768, 800x600, 640x480
* 18-bit LVDS to VGA converter board

# *Packing List*



**LVDS24-01**

24-bit dual-channel output

***18-bit to 24-bit LVDS Converter Board***

***Dimensions (mm)***

***Features***

* Resolution supports up to 1280x1024
* Support below configuration:

» Single-channel 18-bit to single-channel 24-bit

» Single-channel 18-bit to dual-channel 24-bit

18-bit single/

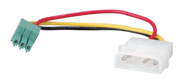
dual-channel input

\* Note: The module does not support dual-channel 18-bit to single-channel 24-bit conversion. ***Ordering Information***

» Dual-channel 18-bit to dual-channel 24-bit

|  |
| --- |
| 1 x LVDS to VGA converter board |
| 1 x QIG |

***Packing List***



**Power cable**

P/N: 32100-130300-RS

***Ordering Information***

|  |  |
| --- | --- |
| Part No. | Description |
| DP-DVI-R10 | DisplayPort to DVI converter board (for IEI iDP connector), RoHS |



***Ordering Information***

|  |  |
| --- | --- |
| Part No. | Description |
| LVDS-VGA-R10 | 18-bit LVDS to VGA converter board |
| 32600-112300-RS | 30-pin LVDS connecting cable |
| 32602-026400-100-RS | 20-pin LVDS connecting cable |

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

|  |  |
| --- | --- |
| Part No. | Description |
| LVDS24-01-R10 | 18-bit to 24-bit LVDS converter board |
| 32602-007900-100-RS | Single-channel 18-bit 20-pin to 24-bit 30-pin LVDS connection cable |
| 32602-008000-200-RS | Dual-channel 18-bit 30-pin to 24-bit 30-pin LVDS connection cable |

|  |
| --- |
| 1 x 18-bit to 24-bit LVDS converter board |
| 1 x Power cable |
| 1 x QIG |