

Physical Specifications

Dimensions (with handles, rack ears & rack mount)

L 482.6 mm × H 228.2 mm × P 546.5 mm
W 19 inch × H 8.98 inch × D 21.52 inch
Please refer to the dimension diagram for more details.

**Product Net Weight
(without accessories)**

25 kg / 55.12 lbs

Shipping Weight (accessories included)

50 kg / 105.82 lbs

Electrical Parameters

Dual redundant power supply
Power connector: AC100V~240V 50/60Hz
Max power consumption: 600 W

Noise on Average (@1, 0.75m height)

Front: 53.73 dB
Rear: 55.3 dB

Operating Conditions

Humidity: 0% RH to 80% RH, non-condensing

Safety Compliance

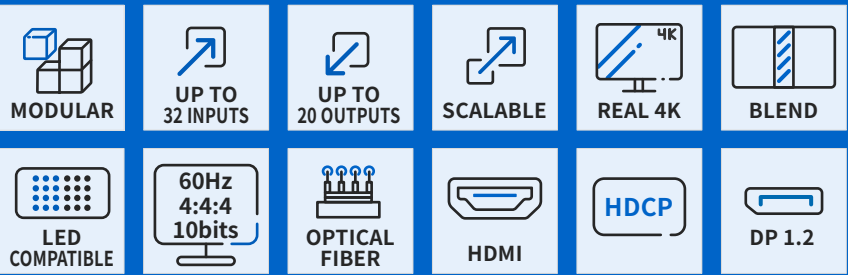
CE FCC IC

Packing Information

- 2 × Power cables
- 1 × RJ45-RJ45 Ethernet cable
- 1 × USB Cable
- 1 × USB Drive
- 1 × Grounding Cable
- 1 × Quick Start Guidet
- 1 × Customer Letter
- 1 × Safety Manual
- 1 × Certificate of Approval
- 1 × Flight case (Optional)
- 1 × Cross-head Screwdriver

F4 Lite

Flex View Multi Screen Presentation Switcher



 UP TO 32 INPUTS

 UP TO 20 OUTPUTS



SCALAB

REAL 4



BLEND



60Hz
4:4:4
10bits



OPTICAL FIBER



HDMI

HDCP

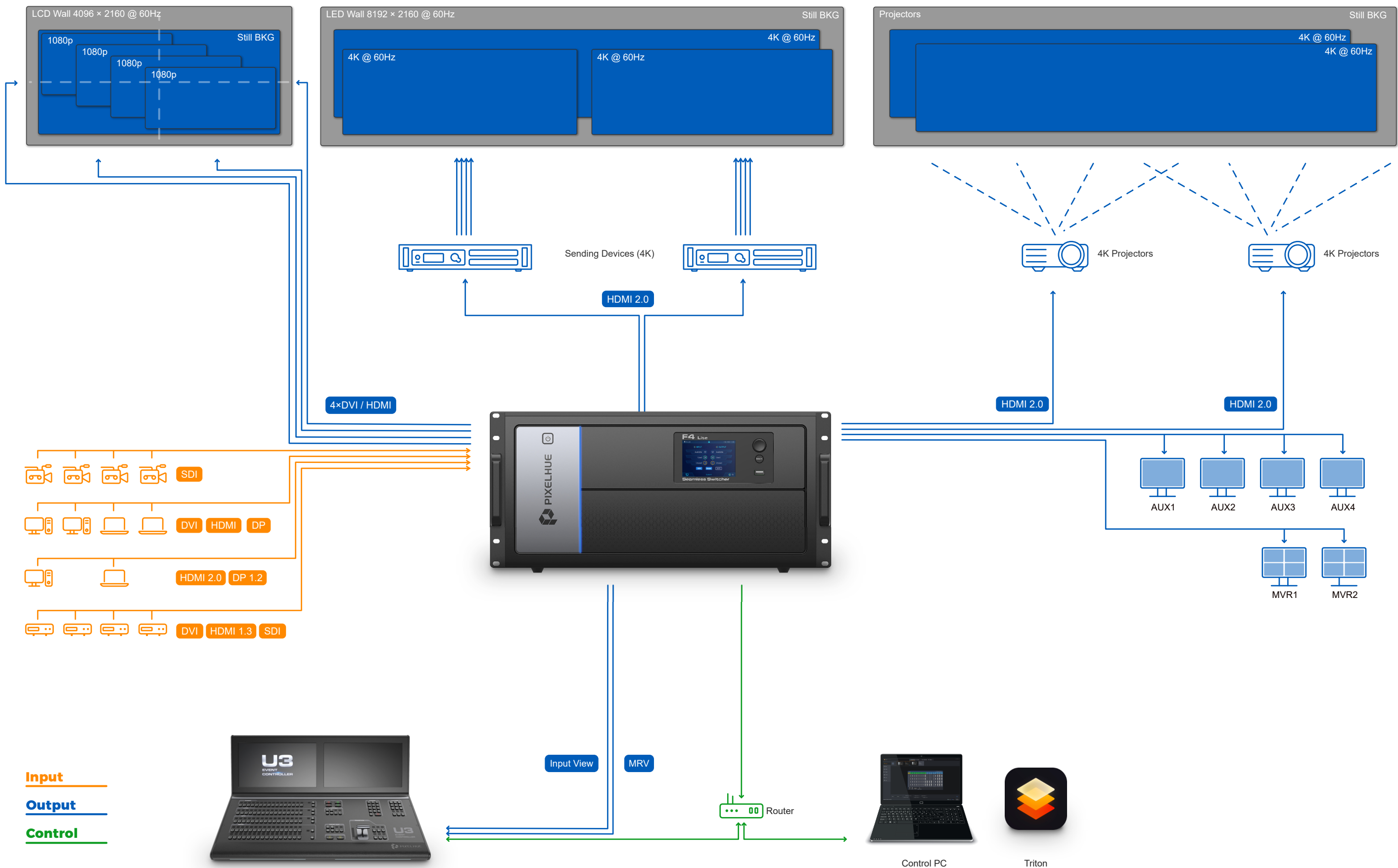
DP 1.2

Powerful Seamless Switcher

46 megapixel, true 4K@60Hz



What F4 Lite Can Do for You



Output

Control



FEATURES

Pixelhue Flexi View series - F4 Lite, designed for easy management of multiple displays for shows or visual management systems. Whatever the input formats and display outputs your display system may require, rest assured the F4 Lite has the input and output flexibility to support your application or event.



Powerful Performance

Pixelhue Flex View series - F4 Lite, is designed for easy management of multiple displays in live shows and visual management systems. Flexible to use, with a variety of input formats and multiple display outputs.

Designed with the latest high-performance FPGA chipset, F4 Lite delivers reliable, stable, faster, and better image performance and outputs uncompressed 4K@60Hz 4:4:4 10 bit video.

Built with a rugged and heavy-duty design, F4 Lite provides a great long-term solution by simplifying upgrades through modules for future use.

More optional I/O modules will be provided for upgrades in the future.

Total Event Control with U3 Controller

U3, a large-scale event controller, is equipped with 80 re-nameable buttons in 4 groups with OLED labels, and 64 levels of adjustment, allowing the operator to manage and monitor any show easily. It can execute the precise control of the transition effects between presets.

U3 features super backlit keys, a highly sensitive T-Bar, and two 21.5" HD ultra-clear capacitive touch screens. It can quickly satisfy any event requirements such as stage performance, auto shows, TV program recording, product launch events, or any large-scale exhibitions. For more information, please refer to the U3 info packages or our official website at www.pixelhue.com.

Key Features

- FPGA based Apollo image processing architecture
- Future-proof modular design
- Swappable cards, and main control card
- Dual hot swappable redundant power supplies
- Up to 32 × 2K60p inputs and 20 × 2K60p outputs
- True 4K60p 4:4:4 10bit video processing
- Field-installable I/O cards to provide a variety of connectivity possibilities
- Up to 40 × SL mixing layers, 20 × DL mixing layers or 10 × 4K mixing layers
- Cross-connection layer within modular card
- Still BKG and LOGO management
- Input and PGM view on auxiliary output
- Flexible arrangement of output connectors

Modular Design for a Flexible and Precise User Experience

F4 Lite chassis utilizes a hot-swappable modular design that supports 8 input slots, 5 PGM output slots, one MVR output slot that has one expansion slot for AUX or Link card. It supports at most 32 × Full HD or 8 × UHD 4K inputs and up to 20 × Full HD or 5 × UHD 4K outputs. Each output card can offer up to 4K × 2K@60Hz loading capacity, and it can support up to 40 × Full HD mixing layers or 10 true 4K layers. It also supports a variety of input and output connectors, including DVI, DP, HDMI, and 3G SDI connectors, allowing easy customization for any project or show.

Easy to Use

F4 Lite works exceptionally well with Pixelhue's matching video processing software TRITON. TRITON provides an offline mode and pre-editing functionality, which can directly import while on-site and allows migration between different devices. This software is easy to master and a sophisticated yet user-friendly interface that guides you from beginning to the end of any event with as little complex operation as possible.

Reliable & Worry-Free Operations

Reliable technology plays an outstanding role in the rapidly evolving market, and F4 Lite allows you to configure the system to accommodate a variety of connectivity arrangements and display requirements. It utilizes dual power supplies, full backup data of configuration to local storage. It features fast restore and can work reliably and efficiently 24/7. F4 Lite has also passed 35 rigorous testing that includes drop, shock, vibration, and thermal tests to ensure that it can survive in any road trip or event environment.

Technical Specifications

Inputs

- Up to 8 input cards
 - 4K connector supports up to 4K2K@60 4:4:4 10-bit inputs
 - DL connector supports up to 4K1K@60 4:4:4 10-bit inputs
 - SL connector supports up to 2K1K@60 4:4:4 10-bit inputs
 - 4K connectors include DP 1.2 and HDMI 2.0
 - DL connectors include DP 1.1, HDMI 1.4 and Dual-link DVI
 - SL connectors include HDMI 1.3, single-link DVI and 3G-SDI
- Standard, custom and advanced EDID supported
 - Support for standard resolutions: 1920 × 1080p@60, 3840 × 1080p@60 and 3840 × 2160p@60, etc.
- Support for motion adaptive deinterlacing
- Input source cropping
- Auto report on input status

Multiviewer Outputs

- 2 × MVR
 - MVR connector can be single-link DVI or HDMI 1.3, with a fixed resolution of 1920 × 1080p@60
- Monitor all inputs and screens (PVW and PGM)
- UMD display and color settings
- MVR background color settings
- Multiple MVR layouts for easy use
- Border adjustment for MVR window

Screens

- Outputs configured as single screens, or outputs in mosaic mode for larger screens
- Up to 128 presets

AUX

- Support for AUX screen
 - AUX connector can be used independently or mosaicing
- AUX screen can follow the preset
- Input and screen (PGM) view

Transition and Effect

- Seamless transition via Take, cut or T-bar operation
- Fade and Cut effects
- Customized transition duration
- Copy or swap mode

Outputs

- Up to 5 outputs
 - 4K connector supports up to 4K2K@60 4:4:4 8-bit outputs
 - DL connector supports up to 4K1K@60 4:4:4 10-bit outputs
 - SL connector supports up to 2K1K@60 4:4:4 10-bit outputs
 - 4K connectors include HDMI 2.0
 - DL connectors include HDMI 1.4 and Dual-link DVI
 - DL connectors include HDMI 1.3, single-link DVI and 3G-SDI
 - 10G OPT copy output
- Standard, custom and advanced output timing settings
- Output width can be up to 8192 pixels, better choice for LED applications
 - Output connector AOI settings
- Auto report on output status

Layers

- Each output card supports up to 8 × SL mixing layers, 4 × DL mixing layers or 2 × 4K mixing layers
 - Full screen roaming supported
- Fade and cut transitions for all layers
- Adjustable layer flipping, mask and border
- Support for pure color layer

BKG & LOGO

- BKG can be a captured or imported image
- Still image library with maximum 512 MB storage space
- LOGO can be an imported image
- Each screen can have its own BKG and LOGO
- BKG auto fills full screen by default

Processing

- High quality scaling
- Extremely low latency, less than 1 frame
- HDCCP 1.4 and HDCCP 2.2 compliant

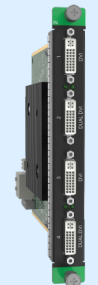
Control

- U3 event controller
- U3 + PC dual control mode

MODULAR

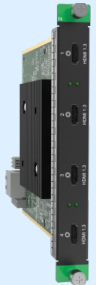
Inputs

8 × slots for input cards
Each supports up to 4K@60Hz or 4 × 1080p60Hz



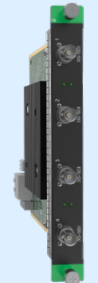
SL-DVI Quad Input Card
HDMI.1.3×4

- HDCP 1.4 compliant
 - SL mode: Up to 2048×1080@60Hz 4:4:4 8-bit
 - DL mode: Up to 4096×1080@60Hz 4:4:4 8-bit
- Dual link mode supported, connectors 2 and 4 active
- EDID management for VESA, and CVT compliant user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz




HDMI1.3 Quad Input Card
HDMI1.3×4

- HDCP 1.4 compliant
 - Up to 2048×1080@60Hz 4:4:4 8-bit
- EDID management for VESA, and CVT compliant user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz




3G-SDI Quad Input Card
3G SDI×4

- Downward compatible with SD/HD SDI
- Bi-level at SD and Tri-level at HD
- Deinterlacing by default
- Support for SMPTE 425-1, 2048-2, 296M, 292M and 259M
- Common resolutions
 - 720×576i (PAL)@50Hz
 - 720×480i (NTSC)@59.94Hz
 - 1920×1080i@50/59.94/60Hz



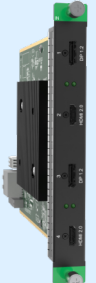
DP1.1 Quad Input Card
DP1.1×4

- HDCP 1.3 compliant
 - SL mode: Up to 2048×1080@60Hz 4:4:4 8-bit
 - DL mode: Up to 3840×1080@60Hz 4:4:4 8-bit
- EDID management for VESA, and CVT compliant user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz
 - 3840×1080p@30/50/59.94/60Hz



4K HDMI2.0/DP1.2 Input Card
DP 1.2×1
HDMI 2.0×1

- DP 1.2: HDCP 1.3 compliant
 - Up to 4096×2160@60Hz 4:4:4 10-bit
- HDMI 2.0: HDCP 2.2 compliant
 - Up to 4096×2160@60Hz 4:4:4 8-bit
- DP or HDMI can be used each time.
- EDID management for VESA, and CVT compliant user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz
 - 3840×1080p@30/50/59.94/60Hz
 - 3840×2160p@30/50/59.94/60Hz




Dual 4K HDMI2.0/DP1.2 Input Card
DP 1.2×2
HDMI 2.0×2

- DP1.2: HDCP 1.3 compliant
 - Up to 4096×2160@60Hz 4:4:4 10-bit
- HDMI: HDCP 2.2 compliant
 - Up to 4096×2160@60Hz 4:4:4 8-bit
- Only one of the HDMI2.0 or DP1.2 can run simultaneously with that in the other parallel group.
 - (Group 1: Connectors 1&2,
 - Group 2: Connectors 3&4)
- EDID management for VESA, and CVT compliant user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz
 - 3840×1080p@30/50/59.94/60Hz
 - 3840×2160p@30/50/59.94/60Hz


Outputs

6 × slots for output cards
Each supports up to 4K@60Hz or 4 × 1080p60Hz




SL-DVI Quad Output Card
Single link DVI-D×4

- HDCP 1.4 compliant
 - Up to 2048×1080@60Hz 4:4:4 8-bit
 - Max. output width: 2048 pixels
 - Max. output height: 2048 pixels
- Support for VESA/CVT and user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz




HDMI1.3 Quad Output Card
HDMI 1.3×4

- HDCP 1.4 compliant
 - Up to 2048×1080@60Hz 4:4:4 8-bit
 - Max. output width: 2048 pixels
 - Max. output height: 2048 pixels
- Support for VESA/CVT and user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz



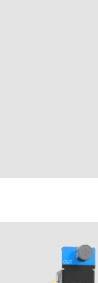
DVI(HDMI1.4) Quad Output Card
DVI(HDMI 1.4)×4

- HDCP 1.4 compliant
- SL mode:
 - Up to 2048×1080@60Hz 4:4:4 8-bit
 - Max. output width: 2048 pixels
 - Max. output height: 2048 pixels
 - Connectors 1, 2, 3 and 4 are all active.
- DL mode:
 - Up to 4096×1080@60Hz 4:4:4 8-bit
 - Max. output width: 4096 pixels
 - Max. output height: 4096 pixels
 - Connectors 2 and 4 are active, connectors 1 and 3 copy the output on connectors 2 and 4.
- Support for VESA/CVT and user timings
- Support for single link (default) and dual link modes
- Compatible with HDMI 1.4 in DL mode
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz
 - 2048×1080p@30/48/50/59.94/60Hz
 - 3840×1080p@30/50/59.94/60Hz



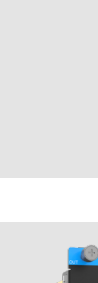
HDMI1.4 Quad Output Card
HDMI 1.4×4

- HDCP 1.4 compliant
- SL mode:
 - Up to 2048×1080@60Hz 4:4:4 8-bit
 - Max. output width: 2048 pixels
 - Max. output height: 2048 pixels
 - Connectors 1, 2, 3 and 4 are all active
- DL mode:
 - Up to 4096×1080@60Hz 4:4:4 8-bit
 - Max. output width: 4096 pixels
 - Max. output height: 4096 pixels
 - Connectors 2 and 4 are active, connectors 1 and 3 copy the output on connectors 2 and 4
- Support for VESA/CVT and user timings
- Support for single link (default) and dual link modes
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz
 - 2048×1080p@30/48/50/59.94/60Hz
 - 3840×1080p@30/50/59.94/60Hz



4K HDMI2.0/OPT Output Card
HDMI 2.0×2
10G OPT×4


- HDMI 2.0: HDCP 2.2 compliant
 - Up to 4096×2160@60Hz 4:4:4 8-bit
- DL mode:
 - Max. output width: 4096 pixels
 - Max. output height: 4096 pixels
- 4K mode:
 - Max. output width: 8192 pixels
 - Max. output height: 7680 pixels
- HDMI1: output interface, HDMI2: copy for HDMI1A
- OPT 1 and OPT 2 copy the output on HDMI
- OPT 3 and OPT 4 copy the output on OPT 1 & OPT 2.
- Support for VESA/CVT and user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz
 - 2048×1080p@30/48/50/59.94/60Hz
 - 3840×1080p@30/50/59.94/60Hz
 - 3840×2160p@30/50/59.94/60Hz



DVI(HDMI1.4)/OPT Output Card
DVI(HDMI 1.4)×2
10G OPT×4


- DVI: HDCP 1.4 compliant
 - Up to 4096×1080@60Hz 4:4:4 8-bit
 - Max. output width: 4096 pixels
 - Max. output height: 4096 pixels
- OPT 1 copies the output on DVI-1
- OPT 2 copies the output on DVI-2
- OPT 3 copies the output on OPT 1
- OPT 4 copies the output on OPT 2
- Support for VESA/CVT and user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz
 - 2048×1080p@30/48/50/59.94/60Hz
 - 3840×1080p@30/50/59.94/60Hz

AUX



AUX SL-DVI Output Card
DVI1.3×4

- HDCP 1.4 compliant
 - Up to 2048×1080@60Hz 4:4:4 8-bit
 - Max. output width: 2048 pixels
 - Max. output height: 2048 pixels
- Support for VESA/CVT and user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz



AUX HDMI Output Card
HDMI1.3×4

- HDCP 1.4 compliant
 - Up to 2048×1080@60Hz 4:4:4 8-bit
 - Max. output width: 2048 pixels
 - Max. output height: 2048 pixels
- Support for VESA/CVT and user timings
- Common resolutions
 - 1920×1080p@30/48/50/59.94/60Hz

Caution

All the cards can be only installed into the designed slots as illustrated in the above figure. Installing a card into an incorrect slot will cause device failure. Specifications subject to change without prior notice.