

2018



Bridge" UHD

Easy Way to **UHD**

- **UHD** Uncompressed Conversion & Transmission
- **Optima Solution™ [4K 60Hz UHD CORE]**



Optima
FOR UHD CORE

- ✓ Quad 3G
- ✓ 12G SDI
- ✓ HDMI 2.0
- ✓ UHD Optic
- ✓ UHD Scaler
- ✓ UHD Matrix



Easy Way to **Bridge" UHD**



Feature

- Standard SDI(SD,HD,3G,6G,12G) format supported
- Bi-directional transmission (TX + RX)
- Optional Optic Interface (SFP module slot)
- LC single mode , max 10Km
- DC 12V , Low power



Bridge UHD_OTR

12G Optic Transceiver

Bridge UHD OTR is the device converting 12G SDI to optical signal for long range transmission as well as enabling Bi-directional transmission by Dual core.



12G SDI · Multi RATE · BIDIRECTION · DUAL CORE · 10Km



Bridge UHD_QOTR

Quad OTR Tranceiver

Bridge UHD QOTR is the device converting 4 independent input signals of 3G SDI to dual core optical signal. Bridge UHD QOTR is Bi-directional transmission module able to not only transmit the 4 independent signals, but also additionally receive the 2 channels of 3G SDI input. Bridge UHD QOTR is available to transmit UHD standard signal as well as a separate signal independently such as Non-standard 3D signal, Speed camera and so on.



3G QUAD · Multi CH · BIDIRECTION · ASYNC · RET PATH

Feature

- Simultaneous Bi-directional support of SDI TX 4 channels and RX 2 channels
- Standard SDI (SD,HD,3G) format supported.
- UHD 4K (Quad 3G to Optic) supported
- LC dual core mode , max 10Km
- DC 12V , Low power





Feature

- Optima Technology inside
- HDMI 2.0 (720p - 2160p60) input
- Optima Optic Module
- LC single mode , max 10Km



Bridge UHD_HOT

HDMI 2.0 to Optic Transmitter

Bridge UHD HOT is the device converting HDMI2.0 signal to UHD 4K optical signal. Bridge UHD HOT is designed with Optima technology to be compatible with a signal of Optima-technology-applied products.



UHD · HDMI 2.0 · Single LC · 10Km



Bridge UHD_OHR

Optic to HDMI2.0 Receiver

Bridge UHD OHR is the device converting UHD 4K Optic signal to HDMI2.0 signal
Bridge UHD OHR is designed with Optima technology to be compatible
with a signal of Optima-technology-applied products



UHD · HDMI 2.0 · Single LC · 10Km

UHD Converter



Optima
FOR UHD CORE

Feature

- Optima Technology inside
- UHD 4K Optic input
- Optima Optic Module
- HDMI 2.0 (720p - 2160p60) output
- LC single mode , max 10Km





Feature

- Inside Optima core
- Max 12G Bandwidth
- Single core LC
- Max distance (10Km)
- STO-T is used to transmit UHD signal for Bridge UHD
- STO-R is used to receive UHD signal for Bridge UHD



UHD SDI to Optic Transmitter



UHD SDI to Optic Receiver



Bridge OPTIMA_STO

Optima SDI Optic SFP

Bridge Optima STO is the SFP type optical module specialized for UHD as converting SDI signal to optical signal. Bridge Optima STO is available for all the Bridge UHD products applied with Optima technology. According to its converting function, Bridge Optima STO is classified as TX / RX, and optically transmits as Single Core LC type.





Bridge UHD_DA

12G SDI DA

Bridge UHD_DA is the device distributing SDI signals of SMPTE standards. The supported format is from 480i to UHD. And Re-clocker and equalizer are built-in as able to be used as a repeater.



UHD · **12G** SDI · **Multi** FORMAT · **3** OUT

Feature

- SDI distribution amplifier
- Inside 12G cable equalizer & re-clocker
- 1 SDI input (SD/HD/FHD/6G/12G all standard format)
- 3 SDI output(SD/HD/FHD/6G/12G all standard format)
- DC 5V ~ 17V wide operating power range





Feature

- Optima Technology inside
- Standard SDI(HD, 3G) format supported.
- Quad 3G SDI inputs
- HDMI 2.0 (720p - 2160p60) output



Bridge UHD_QSH

Quad 3G SDI to HDMI2.0

Bridge UHD QSH is the device converting 4 input signals of UHD Standard 3G SDI to Single HDMI2.0 UHD signal. Bridge UHD QSH is designed with Optima technology to be compatible with a signal of Optima-technology-applied products.



UHD · 3G QUAD · HDMI 2.0



Bridge UHD_QSO

Quad 3G SDI to Optic

Bridge UHD QSO is the device converting 4 input signals of UHD Standard 3G SDI to UHD 4K optical signal Bridge UHD QSO is designed with Optima technology to be compatible with a signal of Optima-technology-applied products.



UHD · **3G** QUAD · **Single** LC · **10Km**

UHD Converter



Optima
FOR UHD CORE

Feature

- Optima Technology inside
- Standard SDI(HD, 3G) format supported.
- Optic Interface (SFP module slot)
- LC single mode , max 10Km
- DC 12V , Low power





Feature

- Optima Technology inside
- HDMI 2.0 (720p - 2160p60) input
- Standard SDI(HD, 3G) format supported.
- Quad 3G SDI output



Bridge UHD_HQS

HDMI 2.0 to Quad 3G SDI

Bridge UHD HQS is the device converting HDMI2.0 UHD input signal to 4 standard signals of 3G SDI. Bridge UHD HQS is designed with Optima technology to be compatible with a signal of Optima-technology-applied products.



UHD · **3G** QUAD · **HDMI** 2.0



Bridge UHD_OQS

Optic to Qaud 3G SDI

Bridge UHD OQS is the device converting UHD 4K Optical input signal to 4 standard signals of 3G SDI. Bridge UHD OQS is designed with Optima technology to be compatible with a signal of Optima-technology-applied products.



UHD · **3G** QUAD · **Single** LC · **10Km**

UHD Converter



Optima
FOR UHD CORE

Feature

- Optima Technology inside
- Standard SDI(HD, 3G) format supported.
- Optic Interface (SFP module slot)
- LC single mode , max 10Km
- DC 12V , Low power





Feature

- Optima Technology inside
- Standard SDI(HD, 3G , 6G, 12G) format supported.
- 12G SDI input , RCK output
- HDMI 2.0 (720p - 2160p60) output



Bridge UHD _SH

12G SDI to HDMI2.0

Bridge UHD SH is the device converting 12G SDI input signal to HDMI2.0 UHD signal. Bridge UHD SH is designed with Optima technology to be compatible with a signal of Optima-technology-applied products.



UHD · 12G SDI · HDMI 2.0



Bridge UHD_SOT

12G SDI to Optic Transmitter

Bridge UHD SOT is the device converting 12G SDI input signal to UHD 4K optical signal.
Bridge UHD SOT is designed with Optima technology to be compatible with a signal of Optima-technology-applied products.



UHD · 12G SDI · Single LC · 10Km

UHD Converter



Optima
FOR UHD CORE

Feature

- Optima Technology inside
- Standard SDI (HD, 3G, 6G, 12G) supported.
- Optic Interface (SFP module slot)
- LC single mode, max 10Km
- DC 12V, Low power





Feature

- Optima Technology inside
- HDMI 2.0 (720p - 2160p60) input
- Standard SDI(HD, 3G, 6G, 12G) format supported.
- Max 12G SDI outputs



Bridge UHD_HS

HDMI 2.0 to 12G SDI

Bridge UHD HS is the device converting HDMI2.0 UHD input signal to 12G SDI signal
Bridge UHD HS is designed with Optima technology to be compatible with a signal of
Optima-technology-applied products



UHD · 12G SDI · HDMI 2.0



Bridge UHD_OS

Optic to 12G SDI Receiver

Bridge UHD OSR is the device converting UHD 4K Optical input signal to 12G SDI signal.
Bridge UHD OSR is designed with Optima technology to be compatible with a signal of
Optima-technology-applied products.



UHD · 12G SDI · Single LC · 10Km

UHD Converter



Optima
FOR UHD CORE

Feature

- Optima Technology inside
- Standard SDI(HD, 3G ,6G, 12G) format supported.
- Optic Interface (SFP module slot)
- LC single mode , max 10Km
- Max 12G SDI outputs





Feature

- Support HDMI1.4/HDMI2.0
- Advanced 4K video Scaler module inside



Bridge UHD_HUD

HDMI 4K Up/Down

Bridge UHD HUD is equipped with Up/Down Scaler function for UHD 4K video processing. Output video format is decided according to Up, Down function setting, and an input signal is automatically detected. Up- or Down-scaled video output fitted with input frame rate is provided.



UHD · HDMI 2.0 · UHD SCALER · UP/DOWN



Bridge UHD_HSC

HDMI 4K Scaler Processor

Bridge UHD HSC is equipped with Up/Down Scaler function for HDMI 4K Video Processing as well as Frame Converting function enabling to convert into various formats.

Bridge UHD HSC is able to freely convert into a demanded resolution & frame rate according to a function setting, Bridge UHD HSC is the Video Format Converting Processor equipped with high-performance UHD scaler able to provide the video output being set for a demanded output resolution aside from Input Video Signal Synchronization.



UHD · **HDMI 2.0** · **UHD** SCALER · **FRAME** Conv.

UHD Converter



Feature

- Support HDMI1.4/HDMI2.0
- Advanced 4K video Scaler module inside
- Frame rate processor inside
- Support Chroma format change (420 <-> 422)
- Frame buffer memory for UHD
- Any UHD out format enable

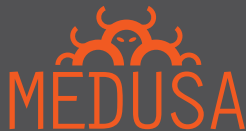


UHD MULTI FORMAT MATRIX

- Bridge UHD_Medusa 1616
- Bridge UHD_Medusa 3232



UHD Routing Switcher



Optima
FOR UHD CORE

Feature

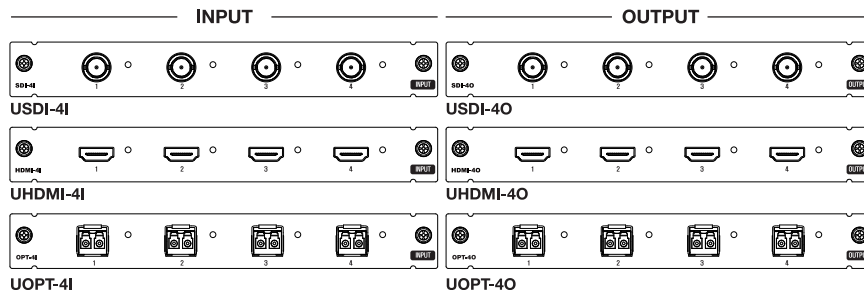
- 16 input , 16 output (Bridge UHD MEDUSA 1616) : 3U size
- 32 input , 32 output (Bridge UHD MEDUSA 1616) : 6U size
- Support Seamless Switching Change
- Separate UHD model
- Dual Power (250W)
- Input : SDI , HDMI , DVI , OPTIC , UTP (1 Card 4 Channel)
- Output : SDI , HDMI , DVI , OPTIC , UTP (1 Card 4 Channel)
- Support APC & Remote & Network Control



Bridge UHD_Medusa 1616

Medusa matrix router is the competent equipment managing various video types of HD, UHD signal as Modula Matrix effectively configuring User-selected I/O suited to purpose of use. Medusa provides not only the maximum 32 x 32 of the expanded configuration, but also the system configuration of diverse interfaces such as SDI, HDMI, DVI, Optic, UTP and so on. Remote and Network controls are available, and its intuitive interfaces enables easy system configuration.

IO Card Composition



www.dfcast.co.kr