

UNIVERSAL SYSTEM FRAME USF-SERIES



USF-105S



USF-212

Universal modular frame designed for compact, economical system building. Build an optimal system for your environment from a full array of modules.

Available frames

- USF-105S: 1U size. Holds 5 modules
- USF-212AS*1/212S/212*2: 2U size. Holds 12 modules

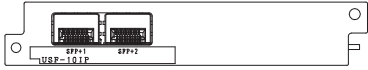
*1 - Only USF-212AS able to hold USF-10IP, USF-10IPSDI6-FS and USF-10IPSDI12-FS. Planned for a future release
 *2 - USF-212 only able to hold distributor modules

- Hot-swappable, front-accessible power unit and module bays**
- New design combining SDI and Ethernet**
- Two genlock inputs (Black burst (BB) or tri-level sync) (USF-212AS/212S/212)**

	USF-105S	USF-212AS	USF-212S	USF-212
SNMP support	Yes	Yes	Yes	Yes
Ethernet HUB	Yes	Yes	Yes	No
SFP+	No	Yes	No	No

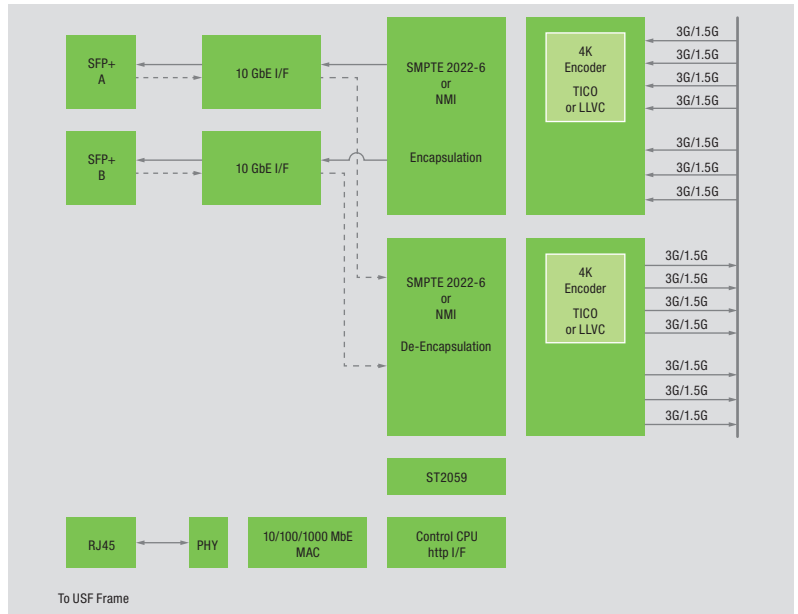
Available modules

USF-10IP

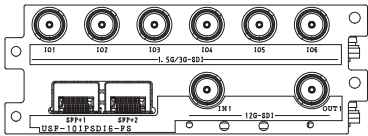


Dual 10 GbE (SFP+) ports

- Converts to other encapsulation modes
- Encapsulation modes: SMPTE 2022-6, SMPTE 2110, NMI



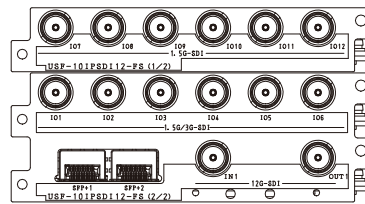
USF-10IPSDI6-FS



Frame/line synchronizer with dual 10 GbE (SFP+), 1-input/1-output 12G-SDI, and 6-input/6-output 3G/1.5G-SDI

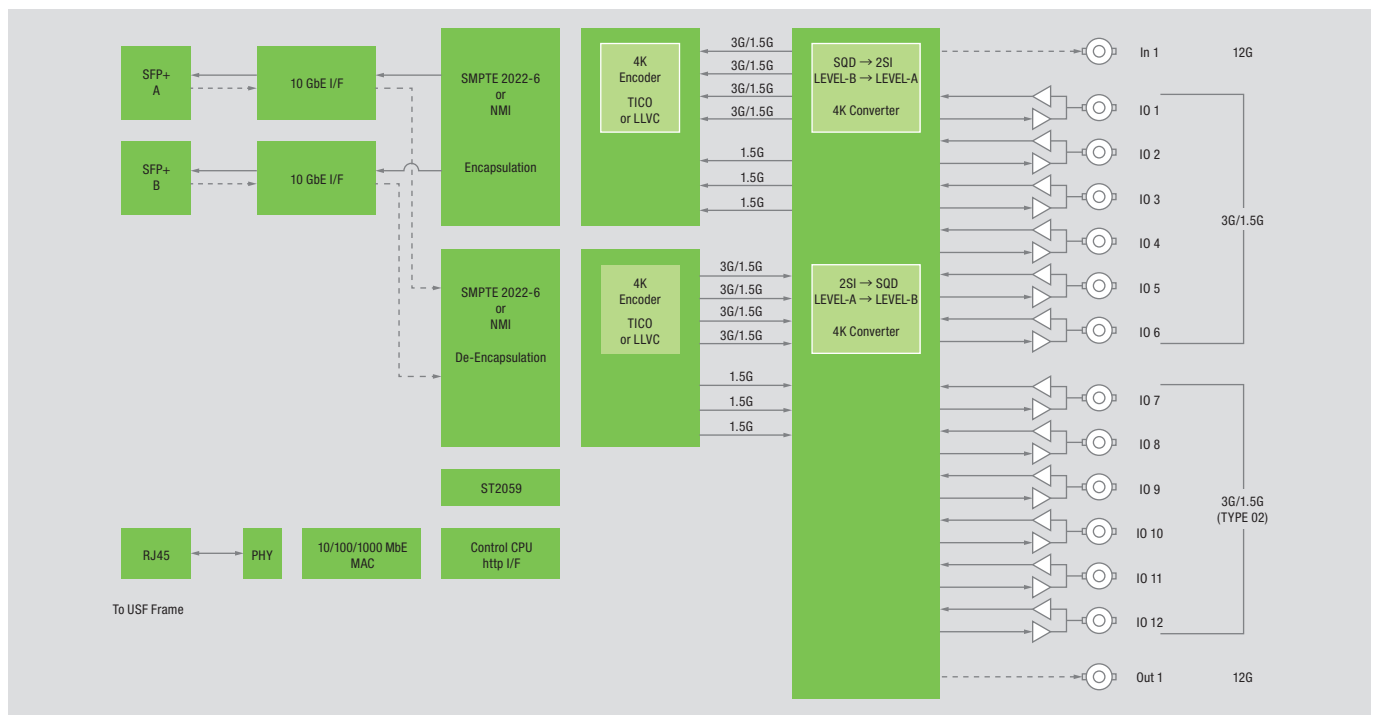
- 2SI/SQD and Level-A/B conversion
- SMPTE 2022-6 (uncompressed): Simultaneous conversion of up to 6 inputs or 6 outputs (6 streams)

USF-10IPSDI12-FS



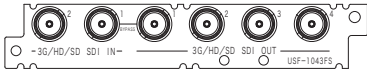
Frame/line synchronizer with dual 10 GbE (SFP+), 1-input/1-output 12G-SDI, and 12-input/12-output 3G/1.5G-SDI

- 2SI/SQD and Level-A/B conversion
- SMPTE 2022-6 (uncompressed): Simultaneous conversion of up to 6 inputs and 6 outputs (12 streams)



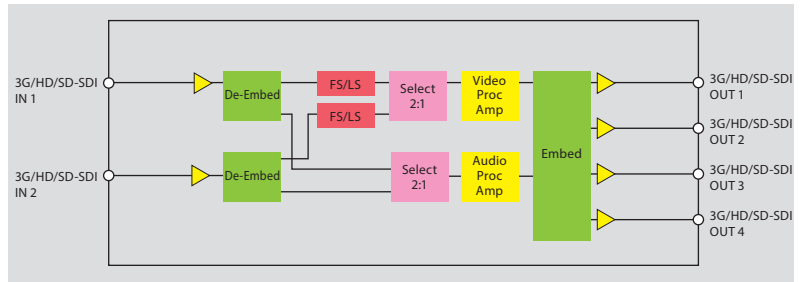
Available modules

USF-1043FS

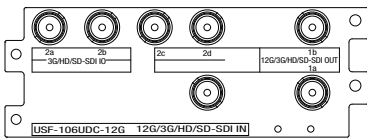


3G/HD/SD-SDI frame synchronizer

- Splits a 3G/HD/SD-SDI source selected from two inputs, for distributed output to four ports
- FS mode: Adjusts phases and syncs asynchronous SDI signals to genlock signals
- Automatic muting for detected audio errors
- 16-channel audio sample rate converter (SRC)
- Audio delay adjustment for each channel (up to 1,000 ms), and audio channel remapping
- Audio downmixing for linear PCM
- Seamless switching of audio and video inputs
- H/V ancillary data pass-through (synchronous input only)
- Proc amp, video clip, video delay, and freeze
- 16-channel embedded audio support (asynchronous audio support for 3G/HD-SDI)

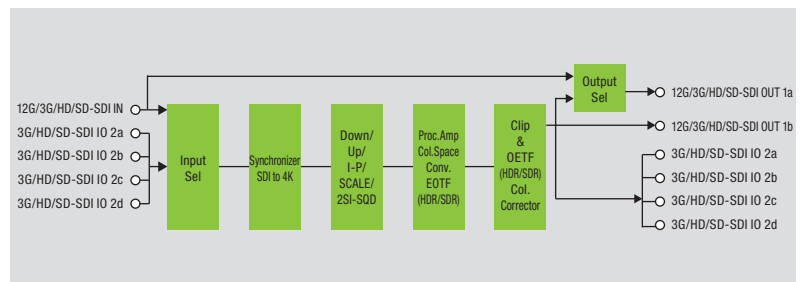


USF-106UDC-12G

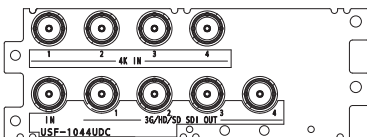


12G-SDI 4K up/down converter

- Supports transfer rates from 270 Mbps to 12 Gbps
- Compensates for differences among external devices by using EOTF/OETF corresponding to various HDR or SDR curves. EOTF/OETF log curves and gamut can be registered from a computer
- I/P and up/down conversion for a range of signals from SD and HD to 4K
- Converts between 4K signal formats: 3G-SDI Level A/B, 2SI/SQD, and ITU-R BT.2020/709
- Frame synchronization and audio/SDI error correction
- SNMP monitoring and browser-based control via built-in web server

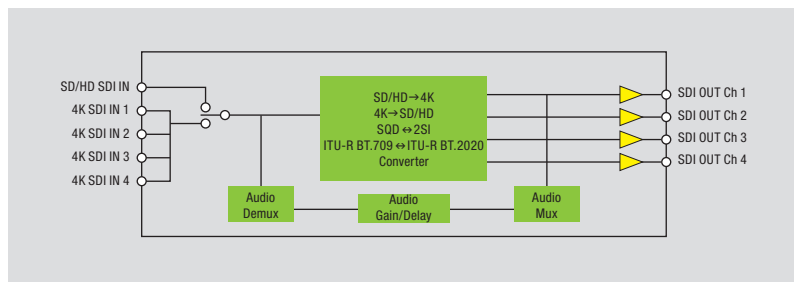


USF-1044UDC



4K up/down converter

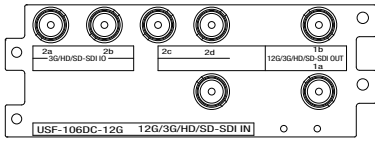
- 2-slot size
- Converts between 4K and HD, or 4K and SD*
- Converts between 4K signal formats (2SI/SQD, ITU-R BT.2020/BT.709)



* Up/down/cross conversion between SD and HD is planned for future support

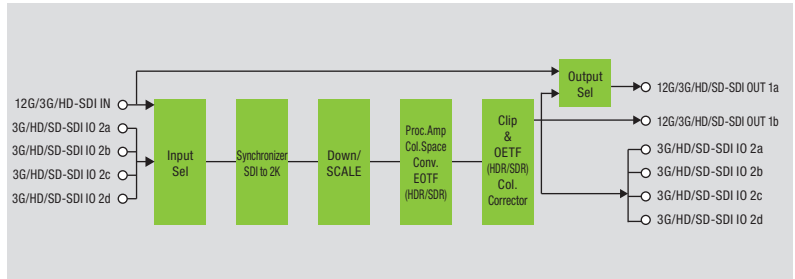
Available modules

USF-106DC-12G

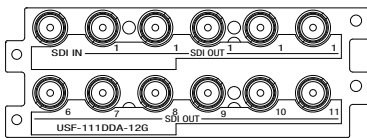


12G-SDI 4K down converter

- Supports transfer rates from 1.5 Gbps to 12 Gbps
- Compensates for differences among external devices by using EOTF/OETF corresponding to various HDR or SDR curves
EOTF/OETF log curves and gamut can be registered from a computer
- Down conversion from 4K to HD/SD, HD to SD
- Converts between ITU-R BT.2020/709
- Frame synchronization and audio/SDI error correction
- SNMP monitoring and browser-based control via built-in web server

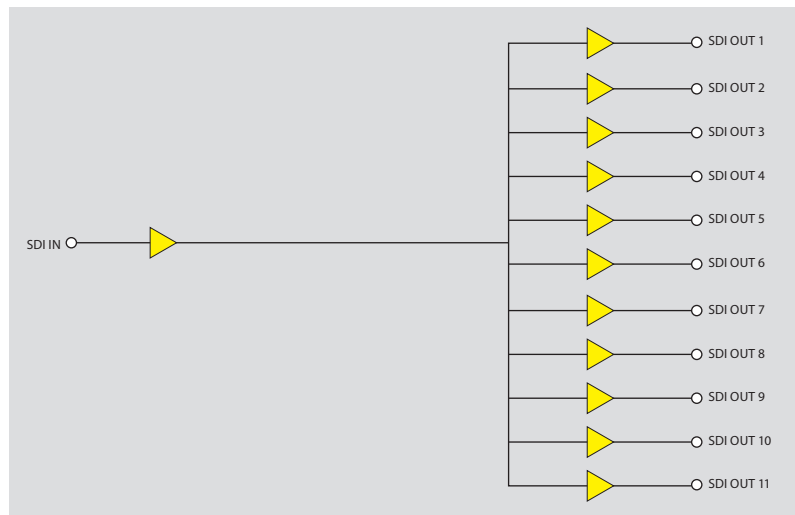


USF-111DDA-12G

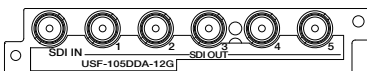


12G-SDI 11-output digital video distributor

- Supports SDI 12 Gbps, 3 Gbps, 1.5 Gbps, or 270 Mbps signals
- DVB-ASI (270 Mbps) also supported

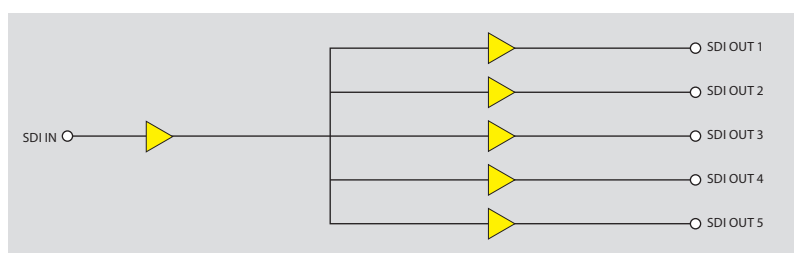


USF-105DDA-12G

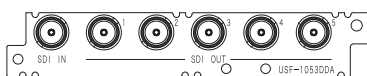


12G-SDI 5-output digital video distributor

- Supports SDI 12 Gbps, 3 Gbps, 1.5 Gbps, or 270 Mbps signals
- DVB-ASI (270 Mbps) also supported

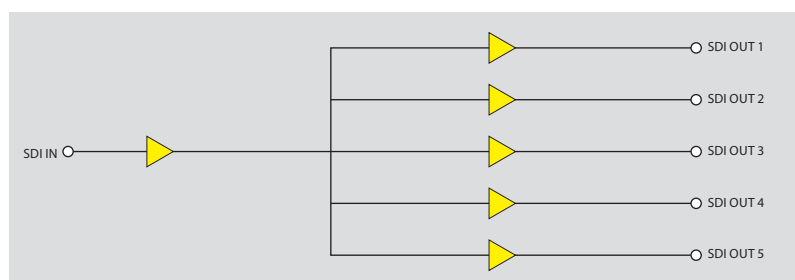


USF-1053DDA



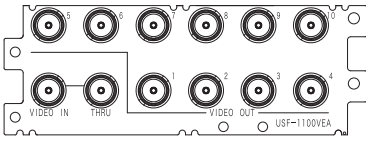
5-output multi-bit rate digital video distributor

- 3G/HD/SD-SDI equalization and reclocking
- Supports SDI 3.0 Gbps, 1.5 Gbps, or 270 Mbps signals
- DVB-ASI (270 Mbps) also supported



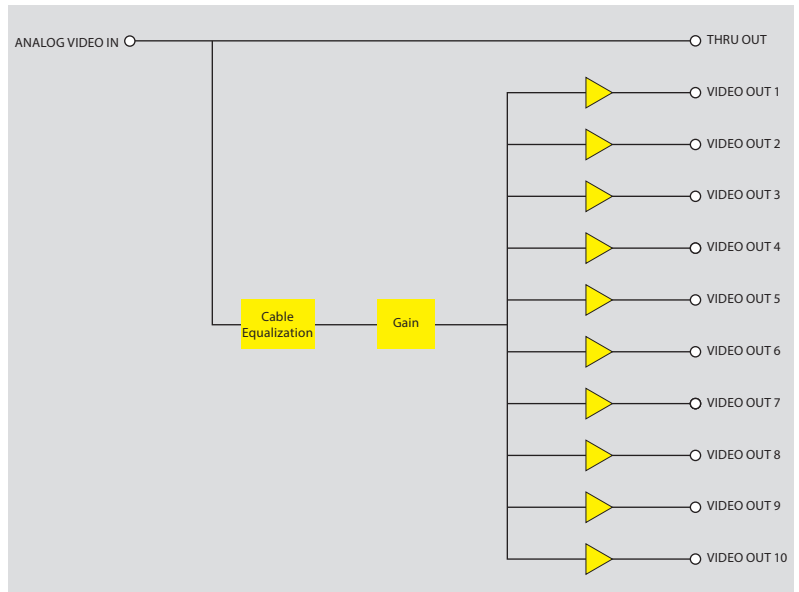
Available modules

USF-1100VEA



10-output analog video distributor

- Cable equalization corrects frequency characteristics in analog video distribution
- Ideal for BB or tri-level sync signal distribution
- Pass-through input supported
- Browser-based control and SNMP monitoring (optional)

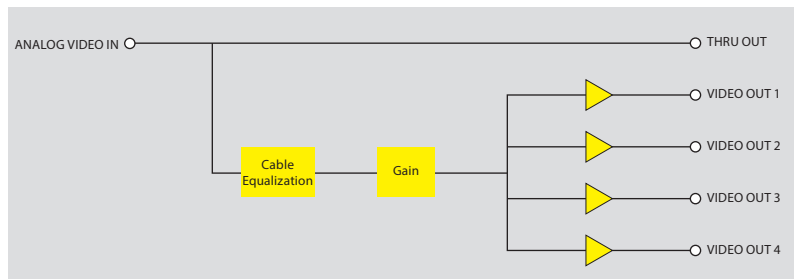


USF-1040VEA



4-output analog video distributor

- Cable equalization corrects frequency characteristics in analog video distribution
- Ideal for BB or tri-level sync signal distribution
- Pass-through input supported
- Browser-based control and SNMP monitoring (optional)

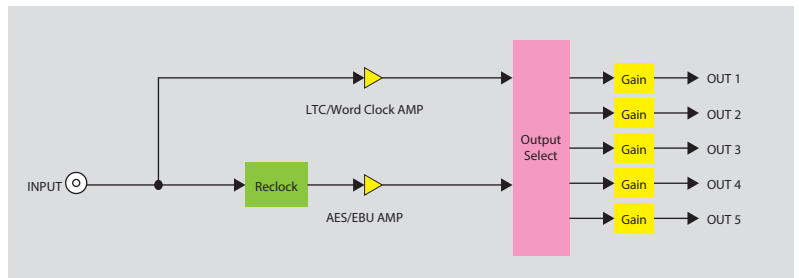


USF-105DADA



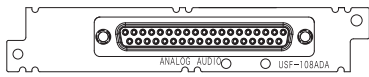
5-output unbalanced digital audio distributor

- Expandable to 20 outputs, using four modules
- LTC and word clock distribution also supported



Available modules

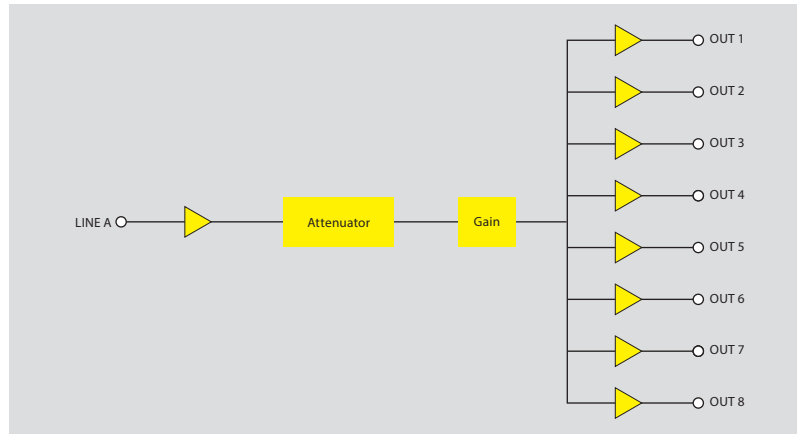
USF-108ADA



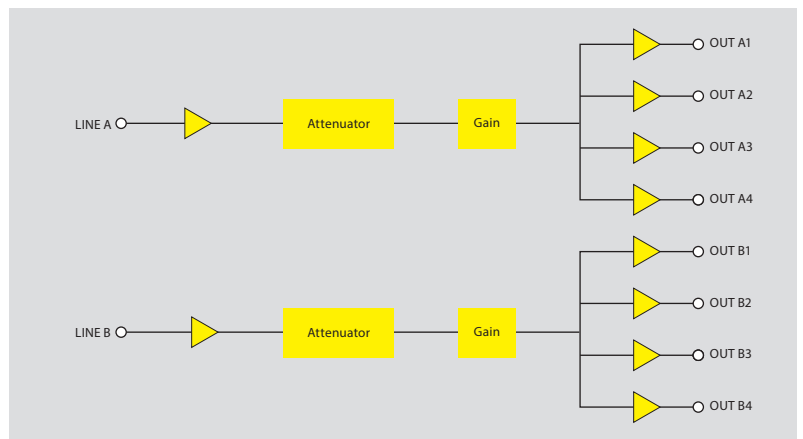
8-output analog audio distributor

- Can be configured for 1-input/8-output or two 1-input/4-output systems
- Browser-based control and SNMP monitoring (optional)

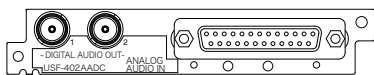
When distributing 1 input to 8 outputs



When distributing 1 input to 4 outputs (2 inputs to 8 outputs in total)

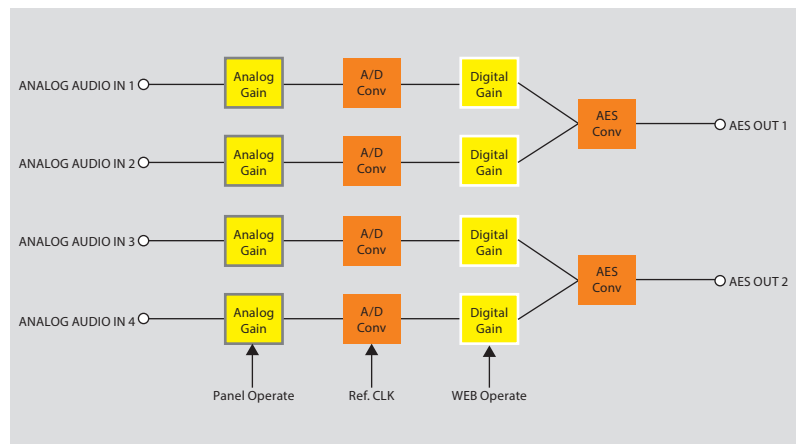


USF-402AADC



Analog-to-digital audio converter

- Converts four channels of analog audio to two channels of digital audio
- Adjustable input impedance (600Ω/high)
- Adjustable input gain (±6 dB with front dial, ±20 dB via browser)
- Adjustable analog audio input level (-10/0/4/8 dBu)
- Adjustable digital audio reference level (-18/-20 dBFS)
- Adjustable audio silence period (1 to 10 sec)
- Supports output synced with reference signals from the USF



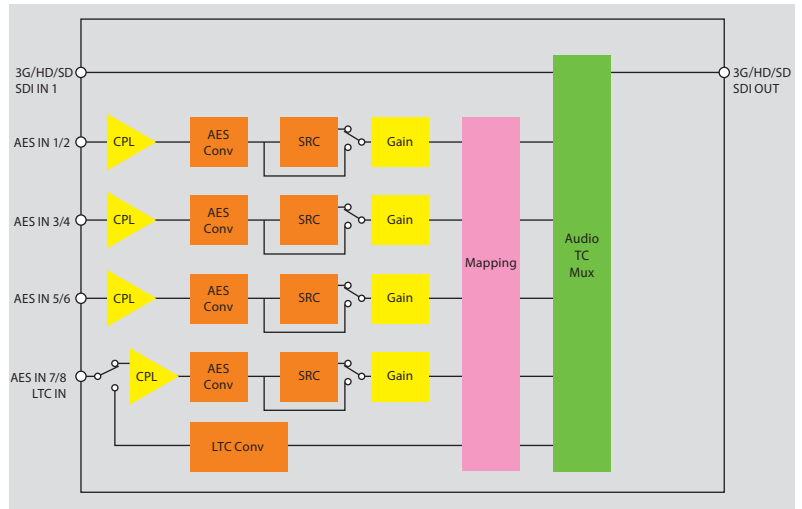
Available modules

USF-1013MUX

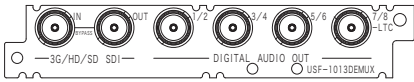


3G/HD/SD-SDI digital audio multiplexer

- Multiplexes 4 pairs (8 channels) of AES/EBU signals onto SDI signals
- 1 input and 1 output (3G/HD/SD-SDI)
- Gain adjustment for audio input/output
- Timecode (LTC) input (or AES IN 7/8 available)
- Sample rate converter for AES/EBU input

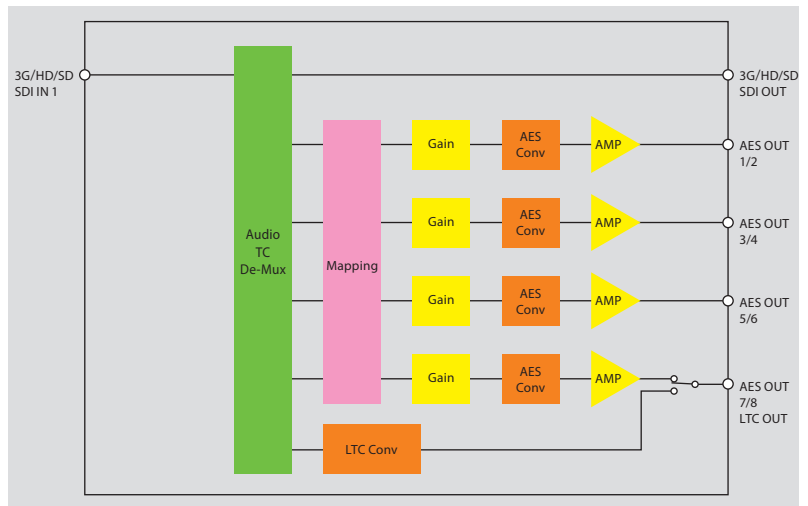


USF-1013DEMUX

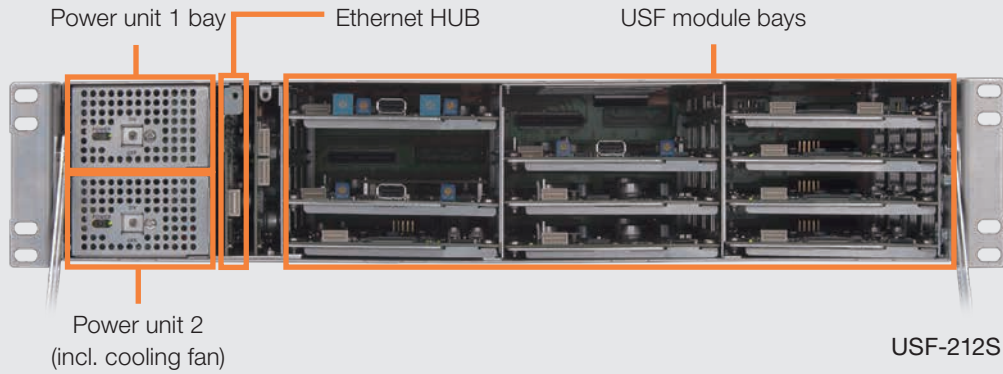


3G/HD/SD-SDI digital audio demultiplexer

- De-multiplexes audio from SDI signals into AES/EBU audio output
- 1 input and 1 output (3G/HD/SD-SDI)
- Gain adjustment for audio input/output
- Timecode (LTC) input (or AES IN 7/8 available)



Front view (when the front panel is removed)

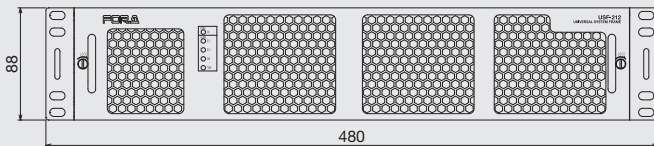


External view

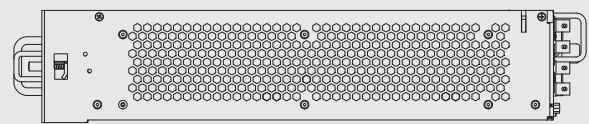
Unit: mm

USF-212S/212

Front

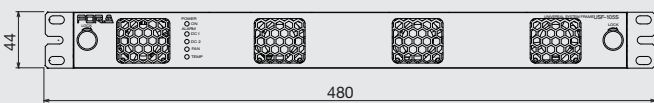


Side

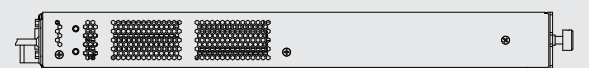


USF-105S

Front

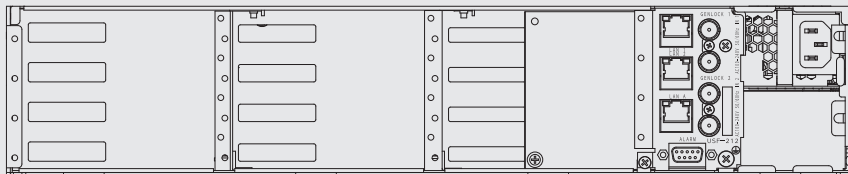


Side

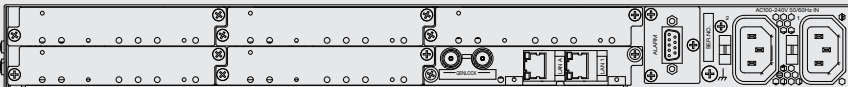


Rear view

USF-212S/212



USF-105S



Head Office: 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan

FOR-A Corporation of America Corporate Office: Tel: +1-714-894-3311
11155 Knott Ave., Suite G&H, Cypress, CA 90630, U.S.A.

FOR-A Corporation of America Northeast Office: Tel: +1-201-944-1120
2 Executive Drive, Suite 670, Fort Lee, NJ 07024, U.S.A.

FOR-A Corporation of America Southeast Office: Tel: +1-305-931-1700
8333 North West 53rd Street, Suite 450, Doral, FL 33166, U.S.A.

FOR-A Corporation of America Service Center: Tel: +1-352-371-1505
2400 N.E. Waldo Road, Gainesville, FL 32609, U.S.A.

FOR-A Corporation of Canada: Tel: +1-416-977-0343
1131A, Leslie Street #209, Toronto, Ontario, M3C 3L8, CANADA

FOR-A Europe S.r.l.: Tel: +39-039-879-778
Via Volturmo, 37, 20861 Brughiero MB, Italy

FOR-A UK Limited: Tel: +44-(0)20-3044-2935
Trident Court, 1 Oakcroft Road, Chessington, KT9 1BD, UK

FOR-A Italia S.r.l.: Tel: +39-039-881-086/103
Via Volturmo, 37, 20861, Brughiero MB, Italy

FOR-A Corporation of Korea: Tel: +82-(0)2-2637-0761
1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 150-103, Korea

FOR-A China Limited: Tel: +86-(0)10-8721-6023
1307 Huateng Building, No. 302, 3 District, Jinsong, Chaoyang, Beijing 100021, China

FOR-A Middle East-Africa Office: Tel: +971-(0)4-551-5830
Dubai Media City, Aurora Tower, Office 1407, P.O. Box 502688, Dubai, UAE

Agiv (India) Private Limited (FOR-A India): Tel: +91-22-2673-3623
2nd Floor, Valecha Chambers, Link Road, Andheri (W), Mumbai 400053, India

FOR-A South East Asia Office: Tel: +852-2110-1352
Studio 09, Rm. A1, 3/F., Phase 1, Hang Fung Ind. Bldg., 2G Hok Yuen St., Hung Hom, Hong Kong

ISO 9001 and 14001 certified (Sakura R&D)

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