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

Available frames.
- 1RU size. Holds up to 5 modules: USF-105AS.
- 2RU size. Holds up to 12 modules: USF-212BS.
- Hot-swappable, front-accessible power unit and module bays.
- New design combining SDI and Ethernet.

Available modules
Below is the maximum number of modules mounted on each frame. For details, please contact FOR-A office.

<table>
<thead>
<tr>
<th>Module</th>
<th>USF-105AS</th>
<th>USF-212BS</th>
</tr>
</thead>
<tbody>
<tr>
<td>USF-10P-TRC</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>USF-10P-TRC-FS</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>USF-10PSDI6-FS</td>
<td></td>
<td>5</td>
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<tr>
<td>USF-10PSDI12-FS</td>
<td></td>
<td>3</td>
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<tr>
<td>USF-106TCO-12G</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>USF-1043FS</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>USF-105FS-12G</td>
<td>3</td>
<td>12</td>
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<tr>
<td>USF-106UDC-12G</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>USF-106DC-12G</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>USF-111DDA-12G</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>USF-105DDA-12G</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>USF-1043VM</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>USF-1100VEA</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>USF-1040VEA</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>USF-105DADA</td>
<td>5</td>
<td></td>
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<tr>
<td>USF-108ADA</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>USF-204ADAC</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>USF-402AADC</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>USF-101MDX4-12G</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>USF-101MDX8-12G</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>USF-1013MUX</td>
<td>5</td>
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<td>USF-1013MUX</td>
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<td></td>
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<tr>
<td>USF-805DICS</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
Available modules

**USF-10IP-TRC**

- **SMPTE ST 2022-8 ↔ SMPTE ST 2110 conversion**
  - IP format: SMPTE ST 2022-8, SMPTE ST 2110.
  - IP synchronization: PTP (SMPTE ST 2059).
  - Four 10 GbE (SFP+) port supports hitless operation for redundancy (SMPTE ST 2022-7).
  - Control: Web GUI, NMOS (IS-04/05 In-band).
  - Up to 5 USF-10IP-TRC modules can be installed into USF-212BS.

**USF-10IP-TRC-FS**

- **SMPTE ST 2022-6 ↔ SMPTE ST 2110 conversion**
  - IP format: SMPTE ST 2022-6, SMPTE ST 2110.
  - IP synchronization: PTP (SMPTE ST 2059). Equipped with frame synchronization to synchronize SMPTE ST 2022-6 sources using PTP.
  - Four 10 GbE (SFP+) port supports hitless operation for redundancy (SMPTE ST 2022-7).
  - Control: Web GUI, NMOS (IS-04/05 In-band).
  - Up to 3 USF-10IP-TRC-FS modules can be installed into USF-212BS.

**USF-10IPSDI6-FS**

- **IP ↔ SDI conversion**
  - IP format: SMPTE ST 2022-6/8, SMPTE ST 2110 (used by switching, cannot be mixed).
  - IP synchronization: PTP (SMPTE ST 2059).
  - Frame synchronizer: Selectable from sync signal generated from PTP or external BB input.
  - Two 10 GbE (SFP+) port supports hitless operation for redundancy (SMPTE ST 2022-7).
  - Video format: 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i.
  - Conversion of up to 6 streams.
    - 3G-SDI: 3 inputs/3 outputs.
    - HD-SDI: Up to 6 inputs or 6 outputs, or 3 inputs/3 outputs.
    - Compresses 12G-SDI to 3G/1.5G-SDI and processes 4K signals by using codec module USF-106TICO-12G simultaneously with input/output signals.
  - Control: Web GUI, NMOS (IS-04/05 In-band).
  - Up to 5 USF-10IPSDI6-FS modules can be installed into USF-212BS.

**USF-10IPSDI12-FS**

- **IP ↔ SDI conversion**
  - IP format: SMPTE ST 2022-6/8, SMPTE ST 2110 (used by switching, cannot be mixed).
  - IP synchronization: PTP (SMPTE ST 2059).
  - Frame synchronizer: Selectable from sync signal generated from PTP or external BB input.
  - Two 10 GbE (SFP+) port supports hitless operation for redundancy (SMPTE ST 2022-7).
  - Video format: 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i.
  - Conversion of up to 12 streams.
    - 3G-SDI: 3 inputs/3 outputs.
    - HD-SDI: Up to 6 inputs/6 outputs.
    - Compresses 12G-SDI to 3G/1.5G-SDI and processes 4K signals by using codec module USF-106TICO-12G simultaneously with input/output signals.
  - Control: Web GUI, NMOS (IS-04/05 In-band).
  - Up to 3 USF-10IPSDI12-FS modules can be installed into USF-212BS.
Available modules

**USF-106TICO-12G**

4K/TICO encoder/decoder
- TICO codec support enables video compression and expansion with high image quality and low latency.
- 4K video transfer over 3G/HD-SDI.
- One 12G-SDI input, 2 outputs.
- 4K 3G/SDI, SDI-SDS, Level-A/B support.
- Downconversion from 4K to HD (1080i/1080p).
- Upconversion available as an option.
- HDR/WCG-compatible color processing.
- Audio processing enables automatic/semi-automatic audio delay setting.
- Frame synchronization.

**USF-105FS-12G**

12G-SDI frame synchronizer
- Supports 3840×2160 Single Link 12G-SDI.
- Supports 3840×2160 Quad Link (SDI/2SDI, Level-A/B) 3G-SDI (input and output are switched from a menu).
- 12G-SDI and Quad Link 3G-SDI (SDI/2SDI, Level-A/B) conversion (Gearbox).
- 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.
- 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).
- SNMP monitoring.

**USF-1043FS**

3G/HD/SD-SDI frame synchronizer
- Splits a 3G/HD/SD-SDI source selected from 2 inputs, for distributed output to 4 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).
- SNMP monitoring.
Available modules

**USF-106UDC-12G**

12G-SDI 4K/HD up/down converter
- Supports 3840 x 2160 Single Link 12G-SDI.
- Supports 3840 x 2160 Quad Link (2SI/SQD) 3G-SDI (input and output are switched from a menu).
- 3G-SDI Level-A/B conversion.
- Dynamic range conversion.
- Color processing circuit to support 4K/HD production.
- 16-channel embedded audio support.
- Sync modes: Frame, Line, AVDL, Line (Min.).
- GUI software (full) and web browser (limited) control.
- SNMP monitoring.

**USF-106DC-12G**

12G-SDI 4K to HD down converter
- Supports 3840 x 2160 Single Link 12G-SDI.
- Supports 3840 x 2160 Quad Link (2SI/SQD) 3G-SDI (input and output are switched from a menu).
- 3G-SDI Level-A/B conversion.
- Dynamic range conversion.
- Color processing circuit to support 4K/HD production.
- 16-channel embedded audio support.
- Sync modes: Frame, Line, AVDL, Line (Min.).
- GUI software (full) and web browser (limited) control.
- SNMP monitoring.

**USF-111DDA-12G**

12G-SDI 11 outputs digital video distributor
- Supports SDI 12 Gbps, 3 Gbps, 1.5 Gbps, or 270 Mbps signals.
- DVB-ASI (270 Mbps) also supported.
- SNMP monitoring.
- Equalizer and re-clock functions.
Available modules

**USF-105DDA-12G**

12G-SDI 5 outputs digital video distributor
- Supports SDI 12 Gbps, 3 Gbps, 1.5 Gbps, or 270 Mbps signals.
- DVB-ASI (270 Mbps) also supported.
- SNMP monitoring.
- Equalizer and re-clock functions.

**USF-1053DDA**

5 outputs 3G/1.5G/270 Mbps digital video distributor
- 1 input 10 distribution outputs available with 2 USF-1053DDA modules.
- 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.
- SNMP monitoring.

**USF-1043VM**

3G/HD/SD-SDI digital video distributor with signal monitor and change-over switch
- Supports 3G/HD/SD-SDI signals.
- Can be configured for 1 input/4 outputs or 2 inputs/2 outputs systems.
- Switches seamlessly to the other line when errors of input signals are detected.
- SNMP monitoring.

* 2 of the input signal must be the same format.
Available modules

**USF-1100VEA**

10 outputs 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 outputs 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 outputs unbalanced digital audio distributor
- Expandable to 20 outputs, using 4 modules.
- LTS and Word Clock signals can be supported by changing the signal mode.
- SNMP monitoring.
Available modules

**USF-108ADA**

8 outputs analog audio distributor
- Can be configured for single channel mode or dual channel mode.
- Browser-based control and SNMP monitoring (optional).

**USF-204ADAC**

Digital-to-analog audio converter with AES/EBU 2 channels input
- Converts 2 channels of digital audio to 4 channels of analog audio.
- Adjustable digital audio input level (-20/-18 dBFS).
- Adjustable audio output level (-10/0/4/8 dBu).
- Adjustable audio silence period (1 to 10 sec).
- SNMP monitoring.

**USF-402AADC**

Analog-to-digital audio converter
- Converts 4 channels of analog audio to 2 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.
- SNMP monitoring.
USF-101MDX4-12G

12G-SDI 4K audio multiplexer/demultiplexer with 8 channels of AES/EBU input/output

- Supports transfer rates from 1.5 Gbps to 12 Gbps.
- Sync modes: Frame, Line, AVDL, Line (Min.).
- Sample rate converter (SRC) for MUX/DEMUX of asynchronous AES/EBU signals (switched from a menu).
- MUX: Mapping 8 channels (4 pairs) of AES/EBU signals in 16 channels and embedding onto SDI signals.
- DEMUX: De-multiplexes 8 selected channels from 16 channels from SDI signals as AES/EBU audio output.
- LTC port is used for input and output.
- SNMP monitoring.

USF-101MDX8-12G

12G-SDI 4K audio multiplexer/demultiplexer with 16 channels of AES/EBU input/output

- Supports transfer rates from 1.5 Gbps to 12 Gbps.
- Sync modes: Frame, Line, AVDL, Line (Min.).
- Sample rate converter (SRC) for MUX/DEMUX of asynchronous AES/EBU signals (switched from a menu).
- MUX: Mapping 16 channels (8 pairs) of AES/EBU signals in 16 channels and embedding onto SDI signals.
- DEMUX: De-multiplexes 8 selected channels from 16 channels from SDI signals as AES/EBU audio output.
- LTC port is used for input and output.
- SNMP monitoring.
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.
- SNMP monitoring.

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).
- SNMP monitoring.
USF-80SDICS

Module SDI Changeover Switcher
Monitors status of two SDI inputs and seamlessly switches to the normal line in case of errors

- Supports multiple bit rate 3G-SDI (Level-A/B) and HD/SD signals.
- Detects CRC errors, sync loss, image freezing, black video, audio muting, and other errors.
- Corrects delay between inputs.
  - Auto correction using image comparison, LTC, or VITC.
  - Manual correction setting range: 1–21 frames.
- Frame synchronization.
  - Delay correction and seamless switching even between asynchronous input.
  - External sync locking.
- Signal bypass output.
  - Passes through makes signal output available when offline.
- Configure settings and monitor input signal via dedicated GUI.

※ Module status checking from USF frame is not supported. GUI-based control and monitoring is performed via the LAN port of this module.
# USF-105AS/105PS Datasheet

## 1. Specifications

### USF-105AS Basic specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>0°C to 40°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>30% to 90% (no condensation)</td>
</tr>
<tr>
<td>Power</td>
<td>100 to 240 V AC 50/60Hz</td>
</tr>
<tr>
<td>Consumption</td>
<td>119 VA (at 100 to 120 V AC at maximum output current)</td>
</tr>
<tr>
<td></td>
<td>125 VA (at 220 to 240 V AC at maximum output current)</td>
</tr>
<tr>
<td>Maximum Output Current</td>
<td>+12V DC 8.3 A</td>
</tr>
<tr>
<td>Dimensions</td>
<td>436 (W) x 44 (H) x 403 (D) mm</td>
</tr>
<tr>
<td></td>
<td>480 (W) (Including rack mount brackets)</td>
</tr>
<tr>
<td>Weight</td>
<td>5.6 kg (USF-105PS not included)</td>
</tr>
<tr>
<td>Consumables</td>
<td>Power supply unit: Replace every 5 years</td>
</tr>
<tr>
<td></td>
<td>Cooling fan: Replace every 6 years</td>
</tr>
</tbody>
</table>

### USF-105AS Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Modules</td>
<td>Max. 5</td>
</tr>
<tr>
<td>Genlock Input</td>
<td>BB: 0.429 Vp-p (NTSC)/PAL: 0.45 Vp-p, Tri-level sync: 0.6 Vp-p</td>
</tr>
<tr>
<td></td>
<td>1 input: 75Ω BNC x 1 and Loop-through BNC x 1 for each (Terminate with 75Ω terminator, if unused.)</td>
</tr>
<tr>
<td>Interface</td>
<td>100BASE-TX / 1000BASE-T RJ-45 x 1 (LAN 1)</td>
</tr>
<tr>
<td></td>
<td>100BASE-TX RJ-45 x 1 (LAN A)</td>
</tr>
<tr>
<td>GPI</td>
<td>9-pin D-sub (female) x 1 (inch screw)</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>USF-105PS</td>
<td>Redundant Power Supply Unit</td>
</tr>
</tbody>
</table>

### Accessories

- AC cord
- DVD-ROM
- Air duct unit
- Setup guide

### USF-105PS Basic specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>0°C to 40°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>30% to 90% (no condensation)</td>
</tr>
<tr>
<td>Power</td>
<td>100 to 240 V AC 50/60Hz</td>
</tr>
<tr>
<td>Maximum Output Current</td>
<td>+12V DC 8.3 A</td>
</tr>
<tr>
<td>Dimensions</td>
<td>52 (W) x 40 (H) x 261.5 (D)mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.4 kg</td>
</tr>
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</table>
2. External Dimensions

USF-105AS

USF-105PS

(All dimensions in mm.)

Date: 2021/11/16
All specifications and contents are subject to change without prior notice.
# USF-212BS / USF-212PS Datasheet

## 1. Specifications

### USF-212BS Basic specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>0°C to 40°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>30% to 90% (no condensation)</td>
</tr>
<tr>
<td>Power</td>
<td>100 to 240 V AC ±10%, 50/60 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>670 VA (at 100 to 120 V AC at maximum output current) &lt;br&gt;660 VA (at 220 to 240 V AC at maximum output current)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>440 (W) x 88 (H) x 400 (D) mm &lt;br&gt;480 (W) (Including rack mount brackets)</td>
</tr>
<tr>
<td>Weight</td>
<td>9.7 kg (Including 1 unit of power supply)</td>
</tr>
<tr>
<td>Consumables (at 24-hour operation)</td>
<td>Power unit: Within 5 years &lt;br&gt;Cooling fan (P-1620): Within 6 years</td>
</tr>
</tbody>
</table>

### USF-212BS Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Modules</td>
<td>Max. 12</td>
</tr>
<tr>
<td>Genlock Input</td>
<td>BB: 0.429 Vp-p (NTSC)/0.45 Vp-p (PAL) or Tri-level Sync: 0.6 Vp-p 75Ω BNC x 2  (W/ loop-through per each. Terminate with 75-ohm, if unused.)</td>
</tr>
<tr>
<td>Interface</td>
<td>Ethernet 100BASE-TX / 1000BASE-T RJ-45 x 2 (LAN 1, LAN 2) &lt;br&gt;100BASE-TX RJ-45 x 1 (LAN A)</td>
</tr>
<tr>
<td>Alarm</td>
<td>9-pin D-sub Female</td>
</tr>
</tbody>
</table>

### Option

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>USF-212PS</td>
<td>Redundant Power Supply Unit &lt;br&gt;AC cord included</td>
</tr>
</tbody>
</table>

### Accessories

AC cord, DVD-ROM, and Quick setup guide

### USF-212PS Basic specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Temperature</td>
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<td>100 to 240 V AC ±10%, 50/60 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>670 VA (at 100 to 120 V AC at maximum output current) &lt;br&gt;660 VA (at 220 to 240 V AC at maximum output current)</td>
</tr>
<tr>
<td>Maximum Output Current</td>
<td>+12 V DC 58.4 A</td>
</tr>
<tr>
<td>Dimensions</td>
<td>68.6 (W) x 41.3 (H) x 397 (D) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.6 kg</td>
</tr>
</tbody>
</table>
2. External Dimensions

USF-212BS

USF-212PS

(All dimensions in mm.)

Date: 2021/10/01
All specifications and contents are subject to change without prior notice.
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