# USF-1013MUX Datasheet

## 1. Specifications
### Basic specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>0 ºC to 40 ºC</td>
</tr>
<tr>
<td>Humidity</td>
<td>30% to 85% (no condensation)</td>
</tr>
<tr>
<td>Power</td>
<td>+12V DC (Supplied by USF frame)</td>
</tr>
<tr>
<td>Consumption</td>
<td>1 A</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Front Module: 106 (W) x 356 (D) mm, Rear module: 114 (W) x 20.2 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.5 kg</td>
</tr>
<tr>
<td>Required Slot</td>
<td>1 Slot</td>
</tr>
</tbody>
</table>

### Technical specifications

#### Video formats

- **3G-SDI:** 1080/59.94p, 50p, 60p (Level-A and Level-B), 1080/30p, 29.97p, 25p, 24p, 23.98p, 24PsF, 23.98PsF
- **HD-SDI:** 1080/59.94i, 50i, 60i, 720/59.94i, 50p, 60p, 24p, 23.98p
- **1035/59.94i, 60i**
- **SD-SDI:** 525/59.94i, 625/50i

#### SDI Input

- 3G/HD/SD-SDI BNC x 1

#### SDI Output

- 3G/HD/SD-SDI BNC x 1

#### Audio Input

- **SDI Embedded (3G/HD-SDI):**
  - Number of channels: 16 ch
  - Sampling rate: 16/20/24-bit, 48 kHz (Synchronous), 48 kHz (Asynchronous, per group)
- **SDI Embedded (SD-SDI):**
  - Number of channels: 16 ch
  - Sampling rate: 16/20-bit, 48 kHz (Synchronous only)
- **AES/EBU (Unbalanced, 75Ω):**
  - Number of channels: 8 ch
  - Sampling rate: 16/20/24-bit, 32 kHz to 48 kHz (if SRC used), 48 kHz (Synchronous), 48 kHz (Asynchronous 3G/HD only)

#### Time code input

- LTC 0.5 V(p-p) to 4.5 V(p-p) BNC x 1

#### Audio output

- **SDI embedded (3G/HD-SDI):**
  - Number of channels: 16 ch
  - Sampling rate: 16/20/24-bit, 48 kHz (Synchronous), 48 kHz (Asynchronous, per group)
- **SDI embedded (SD-SDI):**
  - Number of channels: 16 ch
  - Sampling rate: 16/20/24-bit, 48 kHz (Synchronous only)

#### Audio in/out gain

- Adjustable from -20 dB to +20 dB (in 0.1 dB steps)
<table>
<thead>
<tr>
<th>I/O delay</th>
<th>Less than 1.5 μs (No LTC embedding, excluding SD), SD: less than 2.0 μs.</th>
<th>Less than 1.8 μs (LTC embedding, excluding SD), SD: less than 3.0 μs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(SDI IN - OUT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I/O delay</td>
<td>Less than 1.0 ms (if SRC is not used)</td>
<td>Less than 1.8 ms (if SRC is used)</td>
</tr>
<tr>
<td>(Audio IN-SDI OUT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SNMP</td>
<td>Supports version v2c</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories**  
Screws for rear module installation and DVD-ROM
2. External Dimensions

(All dimensions in mm.)

Date: 2021/09/28
All specifications and contents are subject to change without prior notice.