

## USF-1043FS Datasheet

### 1. Specifications

#### Basic specifications

Temperature	0°C to 40 °C
Humidity	30% to 90% (no condensation)
Power	+12V DC (Supplied by USF frame)
Consumption	1 A
Dimensions	Front Module: 106 (W) x 356 (D) mm Rear Module: 114 (W) x 20.2 (H) mm
Weight	0.5 kg
Required Slot	1 Slot

#### Technical specifications

Video formats	1080/59.94p, 50p (Level-A/B) 1080/59.94i, 50i, 720/59.94p, 50p, 1080/23.98PsF, 1080/24PsF 525/59.94i, 625/50i
Video input	3G/HD/SD-SDI: BNC x 2
Video output	3G/HD/SD-SDI: BNC x 4
Video I/O Process	2 Inputs (Manual or Auto Switching) > 1 Channel > 4 Outputs
Automatic input cable compensation	BNC cable length 3G-SDI: Max. 70 m (5C-FB equivalent) HD-SDI: Max. 100 m (5C-FB equivalent) SD-SDI: Max. 200 m (5C-2V equivalent)
Sampling rate	Y: 10 bit, C: 10 bit  3G-SDI: Y: 148.5 MHz C: 74 MHz HD-SDI: Y: 74 MHz C: 37 MHz SD-SDI: Y: 13.5 MHz C: 6.75 MHz
Genlock input	BB: 0.429 Vp-p (NTSC), 0.45 Vp-p (PAL), Tri-Level Sync: 0.6 Vp-p Supplied by the USF frame.
Sync mode	Frame, Line (1 H and AVDL), Input selectable.
System sync	
Frame sync mode	Horizontal: -1/2 H to +1/2 H Vertical: -1/2 frame to +1/2 frame Delay: Max. 1 frame + 1 H Min. 1 H
Line sync mode	Horizontal: -1/2 H to +1/2 H Vertical: -1/2 frame to +1/2 frame Delay: Max. 1 H + 1/2 H Min. 1/2 H
AVDL mode	Horizontal: -1/2 H to +1/2 H Vertical: -1/2 frame to +1/2 frame Delay: HD Max. 5 H + 1/2 H Min. 1/2 H SD Max. 1 H + 1/2 H Min. 1/2 H

Input sync mode	Horizontal: -1/2 H to + 1/2 H Vertical: -1/2 frame to +1/2 frame Delay: Max. 1 frame Min. +400 clk
Video delay adjustment	Max. 10 frames (in Frame or Input sync mode)
Video functions	Proc Amp, Video clip, Freeze
Proc Amp	Video level: 0.0% to 200.0% Chroma level: 0.0% to 200.0% Black level: -7.0% to 20.0% Chroma phase: -179.9° to + 180.0°
Video clip	White clip: 50.0 to 109.0% Black clip: -7.0 to 50.0% Chroma clip: 50.0 to 113.0%
Audio input	
Embedded audio	3G/HD: 16 channels (Group 1-4) 48 kHz 16-bit to 24-bit synchronous / asynchronous (3G Level-B: Link A only) SD: 16 channels (Group 1-4) 48 kHz 16-bit to 24-bit synchronous only
Audio output	
Embedded audio	3G/HD: 16 channels (Group 1-4) 48 kHz 16/20/24-bit synchronous / asynchronous (3G Level-B: Link A only) SD: 12 channels (Group 1-4) 48 kHz 16/20/24-bit synchronous only
Audio delay adjustment	Adjustable between 2 ms and 1,000 ms (per 1 ms)
Audio functions	SRC (Sample Rate Converter), gain control (per channel), remapping, mute, downmix
Remote control	Web control / SNMP control (via USF frame)
SNMP	Supports version v2c

#### Option

FA-10RU	Remote Control Unit
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#### Accessories

DVD-ROM and Screws for rear module installation

**2. External Dimensions**

(All dimensions in mm.)

