

## USF-105FS-12G 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	2.0 A
Dimensions	Front Module: 106 (W) x 357 (D) mm Rear Module: 114 (W) x 20.2 (H) mm
Weight	450 g
Required Slot	1 Slot

#### Technical specifications

Video Format	1080/59.94i, 50i, 23.98PsF 1080/59.94p, 50p (Level-A/B) 3840 x 2160/59.94p, 50p (Quad Link 3G-SDI, SQD / 2SI, Level-A / -B) 3840 x 2160/59.94p, 50p (Single Link 12G-SDI)
Video input	12G/3G/HD-SDI 75Ω BNC x 1 3G/HD-SDI BNC x 4 (SDI IO 1-4) (Input or Output)
Video output	12G/3G/HD-SDI 75Ω BNC x 1 3G/HD-SDI BNC x 4 (SDI IO1-4) (Input or Output)
Color sampling	4:2:2 10-bit
Genlock input	BB:NTSC: 0.429 V(p-p) / PAL: 0.45 V(p-p) or Tri-level Sync: 0.6 V(p-p) BNC x 1 75Ω or loop-through
Sync. mode	Frame, Line, AVDL
System adjustment range	
Frame mode	Horizontal: -0.5 H to +0.5 H Vertical: -0.5 frame to +0.5 frame Delay: Max. 1 frame + 2 H / Min. 2 H (Max: 1 frame + 4 H / Min. 4 H for Quad Link 3G-SDI)
Line mode	Horizontal: -0.5 H to +0.5 H Vertical: -0.5 frame to +0.5 frame Delay: Max. 1.45 H / Min. 0.55H
AVDL mode	Horizontal: -0.5 H to +0.5 H Vertical: -0.5 frame to +0.5 frame Delay: Max. 5.5 H / Min. 0.5 H
Line(Min) mode	Horizontal: -0.5 H to +0.5 H Vertical: -0.5 frame to +0.5 frame Delay: Max. 1H + 600 clk / Min. 800 clk
Video delay adjustment	Max. 8 Frames (Frame/Input mode)
Color processing	Proc. Amp, Color corrector, Video clip

Proc. Amp	Video level: 0.0% to 200.0% Chroma level: 0.0% to 200.0% Black level: -20.0% to 100.0% Hue: -179.8° to +180°
Color correction	Balance mode
Video clip	YPbPr (YCbCr) Clip
Audio input	SDI embedded 16 channels (Group 1-4) 48 kHz 16 to 24-bit Synchronous/ Asynchronous audio
Audio output	SDI embedded 16 channels (Group 1-4) 48 kHz 16 to 24-bit Synchronous/ Asynchronous audio
Audio delay adjustment	5 ms to 1,000 ms (1 ms steps)
Audio processing	SRC (Sample Rate Converter), Gain control, Downmix, Remap, Mute
SNMP	Supports version v2c

#### Accessories

Screws for rear module installation and DVD-ROM

**2. External Dimensions**

(All dimensions in mm.)

