

USF-101MDX4/101MDX8-12G Datasheet

1. Specifications

<USF-101MDX4-12G>

Basic specifications

Temperature	0°C to 40 °C
Humidity	30% to 90% (no condensation)
Power	+12V DC (Supplied by USF frame)
Consumption	1.9 A
Dimensions	Front Module: 106 (W) x 357 (D) mm, Rear Module: 114 (W) x 40.7 (H) mm
Weight	430 g
Required Slot	2 Slots

Technical specifications

Video formats	59 Hz family 3840 x 2160/59.94p (Single Link 12G-SDI), 1080/59.94p Level-A/B, 29.97p, 59.94i (29.97PsF), 23.98PsF 720/59.94p
	50 Hz family 3840 x 2160/50p (Single Link 12G-SDI), 1080/50p Level-A/B, 50i (25PsF), 720/50p
Video input	12G/3G/HD-SDI 75Ω BNC x 1
Video output	12G/3G/HD-SDI 75Ω BNC x 1
Color sampling	4:2:2 10-bit
AES/EBU input / output	1.0 Vp-p unbalanced 75Ω BNC x 4 (Input/output selectable per 4 channels)
LTC input / output	Approx. 1.0 V p-p ±6dB BNC x 1 (Input/output selectable) 10 kΩ input, 75 Ω output
Genlock input	BB: NTSC: 0.429 Vp-p / PAL: 0.45 Vp-p or Tri-Level Sync: 0.6 Vp-p 75Ω (Supplied by the USF frame.)
Sync mode	Frame, Line, AVDL, Line (Min)
System synchronization	
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
Line mode	Horizontal:-0.5 H to +0.5 H Vertical: -0.5 frame to +0.5 frame Delay: Max. 1.45 H / Min. 0.55 H
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

Audio input	SDI embedded 16 channels (Group 1-4) 48 kHz 16/20/24 bits synchronous / asynchronous AES/EBU 8 channels 32/44.1/48 kHz 16-24 bits synchronous / asynchronous
Audio output	SDI embedded 16 channels (Group 1-4) 48 kHz 16/20/24 bits synchronous / asynchronous AES/EBU 8 channels 48 kHz 16/20/24 bits
Audio delay adjustment	Adjustable between 5 ms and 1,000 ms (per 1 ms)
Audio functions	SRC (Sample Rate Converter), gain control, downmix, remapping, mute (per channel)
SNMP	Supports version v2c

Accessories

Screws for rear module installation and USB flash drive

<USF-101MDX8-12G>

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 40.7 (H) mm
Weight	400g
Required Slot	2 Slots

Technical specifications

Video formats	59 Hz family 12G-SDI: 3840 x 2160 / 59.94p 3G-SDI: 1080/59.94p (Level-A/B) HD-SDI: 1080/29.97p, 59.94i (29.97PsF), 23.98PsF 720/59.94p
	50 Hz family 12G-SDI: 3840 x 2160/50p (Single Link 12G-SDI) 3G-SDI: 1080/50p (Level-A/B) HD-SDI: 1080/50i (25PsF), 720/50p
Video input	12G/3G/HD-SDI 75Ω BNC x 1
Video output	12G/3G/HD-SDI 75Ω BNC x 1
Color sampling	4:2:2 10-bit
AES/EBU input / output	1.0 Vp-p unbalanced 75Ω BNC x 4 (Input/output selectable per 4 channels)
LTC input / output	Approx. 1.0 V p-p ±6dB BNC x 1 (Input/output selectable) 10 kΩ input, 75 Ω output
Genlock input	BB: NTSC: 0.429 Vp-p / PAL: 0.45 Vp-p or Tri-Level Sync: 0.6 Vp-p 75Ω (Supplied by the USF frame.)
Sync mode	Frame, Line, AVDL, Line (Min)
System synchronization	
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
Line mode	Horizontal:-0.5 H to +0.5 H Vertical: -0.5 frame to +0.5 frame Delay: Max. 1.45 H / Min. 0.55 H
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

Audio input	SDI embedded 16 channels (Group 1-4) 48 kHz 16/20/24 bits synchronous / asynchronous AES/EBU 16 channels 32/44.1/48 kHz 16-24 bits synchronous / asynchronous
Audio output	SDI embedded 16 channels (Group 1-4) 48 kHz 16/20/24 bits synchronous / asynchronous AES/EBU 16 channels 48 kHz 16/20/24 bits
Audio delay adjustment	Adjustable between 5 ms and 1,000 ms (per 1 ms)
Audio functions	SRC (Sample Rate Converter), gain control, downmix, remapping, mute (per channel)
SNMP	Supports version v2c

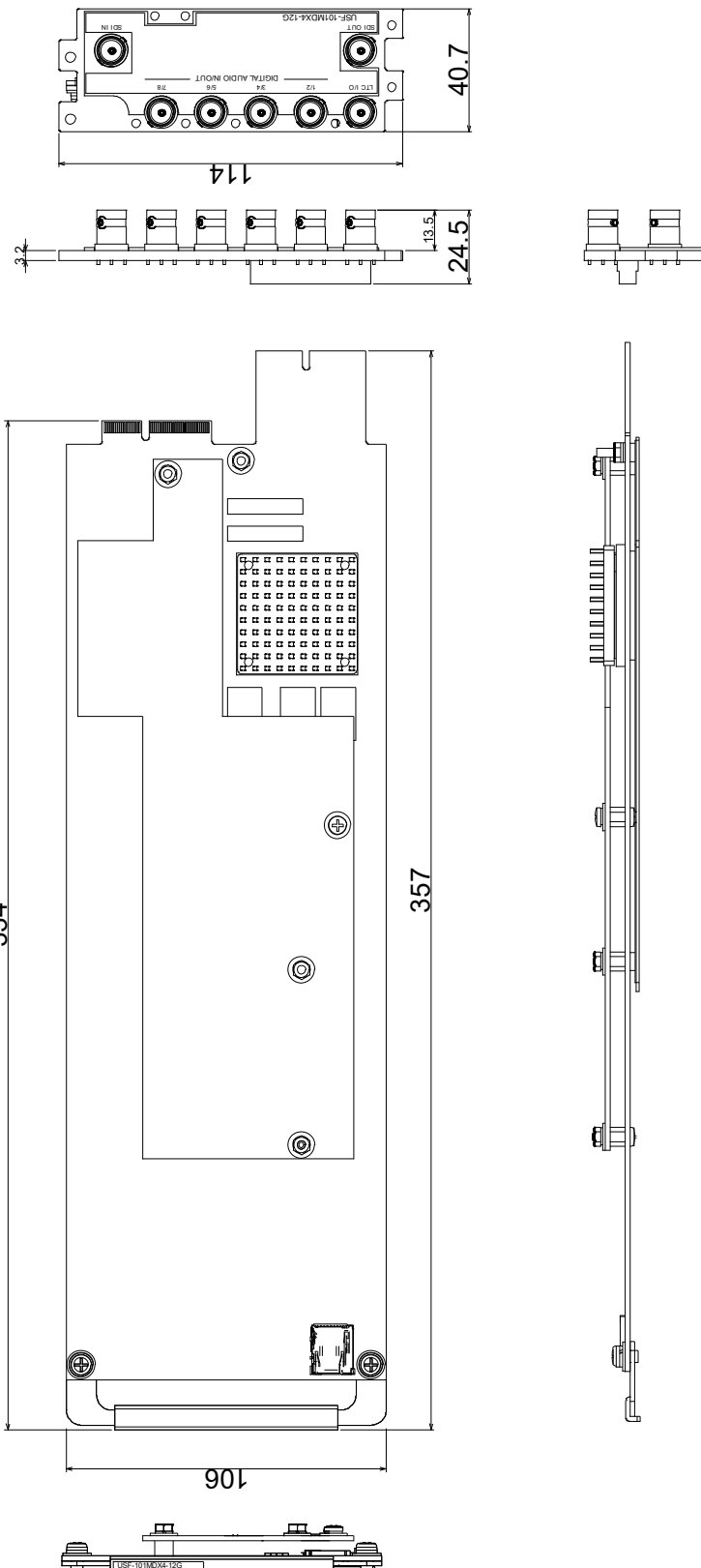
Accessories

Screws for rear module installation and DVD-ROM

2. External Dimensions

(All dimensions in mm.)

<USF-101MDX4-12G>



(All dimensions in mm.)

<USF-101MDX8-12G>

