

## FA-1010 Datasheet

### 1. Specifications

#### Basic specifications

Temperature	0°C to 40°C
Humidity	30% to 90% (no condensation)
Power	100 VAC - 240 VAC $\pm$ 10%, 50/60 Hz
Consumption	FA-1010: 80 VA (78 W) (at 100 - 120 VAC) 86 VA (72 W) (at 220 - 240 VAC) with FA-10PS: 80 VA (76 W) (at 100 - 120 VAC) 103 VA (73 W) (at 220 - 240 VAC) Add the amount of power consumption of options installed: FA-10AES-BL: 4.3 VA (4.2 W) (at 100 - 120 VAC) 3.48 VA (3.8 W) (at 220 - 240 VAC) FA-10AES-UBL: 2.86 VA (3 W) (at 100 - 120 VAC) 3.12 VA (3.1 W) (at 220 - 240 VAC) FA-10GPI: 4.6 VA (4.8 W) (at 100 - 120 VAC) 4.1 VA (4.3 W) (at 220 - 240 VAC)
Dimensions	430 (W) x 400 (D) x 44 (H) mm 480 (W) (Including rack mount brackets)
Weight	FA-1010: 7.0 kg (without options) FA-10AES-BL: 0.2 kg FA-10AES-UBL: 0.2 kg FA-10AES-UBL: 0.1 kg FA-10ANA-AUD: 0.1 kg FA-10GPI: 0.2 kg
Consumables (at 24-hour operation)	(Recommended replacement timespans) Power unit (within 3 years) Cooling fan: P-1439-2 (FAN 1 - 4) (within 5 years)

#### Technical specifications

Video Formats	SD-SDI:	525/60, 625/50
	HD-SDI:	1080/59.94i, 50i, 23.98PsF, 24PsF, 720/59.94p, 50p
	3G-SDI:	1080/59.94p, 50p (Level-A/B) 2x1080/59.94i, 50i, 29.97p, 25p (Level-B)
	Dual Link 3G-SDI:	2x1080/29.97p, 25p (Level-B) *1*2
	Quad Link 3G-SDI:	1080/59.94p, 50p (Level-A/B) *2
	*1 Video inputs unsynchronized with the reference are not supported. *2 Process Amp and Color Corrector cannot be used for 2SI signals and should be set to factory default settings for 2SI signals.	
Video Input	3G-SDI: 3 Gbps, HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75 $\Omega$ BNC x 10	
Video Output	3G-SDI: 3 Gbps, HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75 $\Omega$ BNC x 10	
Video Processing	4:2:2 Digital Component	
Quantization	3G/HD/SD-SDI: 10-bit	
Genlock Input	BB: NTSC: 0.429 Vp-p / PAL: 0.45 Vp-p; or Tri-level Sync: 0.6 Vp-p, 75 $\Omega$ BNC x 1, loop-through (Terminate with 75 $\Omega$ terminator, if unused.)	
Synchronizer mode	Frame Sync, Line Sync, AVDL, or Line(Minimum) mode	

Video Delay	Maximum 8 frames (in Frame Sync mode)
Video Processing Functions	
Process 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°
Video Clip	YPbPr mode RGB mode
Color Correction	Balance mode Differential mode Sepia mode
Audio Input	
Embedded Audio	3G/HD: 16 channels (Group 1 to 4), 48 kHz, 16/20/24-bit, synchronous/asynchronous, (Link A-embedded audio only in 3G Level-B) SD: 16 channels (Group 1 to 4), 48 kHz, 16/20/24-bit, synchronous only
FA-10AES-BL Option (AES/EBU)	Balanced, 0.2-7 Vp-p, 110Ω, 25-pin D-Sub (female) x 1, input/output, 4 pairs of stereo channels, 32/44.1/48 kHz, 16-bit to 24-bit
FA-10AES-UBL Option (AES/EBU)	Unbalanced, 1.0 Vp-p, 75Ω, BNC x 4, input/output, Maximum 4 pairs of stereo channels, 32/44.1/48 kHz, 16-bit to 24-bit
FA-10ANA-AUD Option (Analog)	<Line input> 4 channels (2 pairs of stereo channels) balanced/unbalanced 25-pin D-Sub (female) x 1 (Shared with analog audio output) 600 ohm/high impedance, 48 kHz, 24-bit Input level: -10 dBu to +8 dBu  <Mic input> 2 channels (1 pair of stereo channels) balanced/unbalanced (Shared with the analog audio input CH1/2 connector) 600 ohm/high impedance, 48 kHz, 24-bit Input level: -55 dBu to -30 dBu
Audio Output	
Embedded Audio	3G/HD: 16 channels (Group 1 to 4), 48 kHz, 16/20/24-bit, synchronous/asynchronous, (Link A-embedded audio only in 3G Level-B) SD: 12 channels (Group 1 to 3), 48 kHz, 16/20/24-bit, synchronous only
FA-10AES-BL Option (AES/EBU)	Balanced, 3.3 Vp-p, 110Ω, 25-pin D-Sub (female) x 1, input/output, 4 pairs of stereo channels, 48 kHz, 16/20/24-bit
FA-10AES-UBL Option (AES/EBU)	Unbalanced, 1.0 Vp-p, 75Ω, BNC x 4, (Shared with the AES/EBU input) Maximum 4 pairs of stereo channels, 48 kHz, 16/20/24-bit
FA-10AES-UBLCL Option (AES/EBU)	Unbalanced, 1.0 Vp-p, 75Ω, BNC x 4, (The FA-10AES-UBL functions as an input card when used with the FA-10AES-UBLCL.) 4 pairs of stereo channels, 48 kHz, 16/20/24-bit
FA-10ANA-AUD Option (Analog)	4 channels (2 pairs of stereo channels) balanced/unbalanced 25-pin D-Sub (female) x 1 (Shared with analog audio input) 100 ohm or lower, 48 kHz, 24-bit Output level: -10 dBu to +8 dBu
Audio Delay	5 - 1,000 ms (adjustable in 1 ms steps)

Audio Processing Functions	Sampling rate converter (SRC) Gain control Down mix Channel re-mapping Channel mute
Interface	
Ethernet	100 Base-TX / 1000 Base-T, RJ-45 x 1
FA-10GPI Option	25-pin D-sub (female)

### Options

FA-10PS	Redundant power supply unit (Including AC cord and AC cord retaining clip).
FA-10AES-BL	Digital audio (balanced) I/O card
FA-10AES-UBL	Digital audio (unbalanced) I/O card
FA-10AES-UBLC	Digital audio (unbalanced) Output expansion cable * Requires FA-10AES-UBL option. * The FA-10AES-UBL functions as an input card when used with the FA-10AES-UBLC.
FA-10ANA-AUD	Analog audio I/O expansion cable
FA-10GPI	External I/O control card
FA-10RU	Remote control unit
FA-AUX30	GPI control unit

### Accessories

AC cord, EIA rack mount brackets, and Quick setup guide

**2. External Dimensions**

(All dimensions in mm.)

