## FA-1010 Datasheet

### 1. Specifications

#### Basic specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>0ºC to 40ºC</td>
</tr>
<tr>
<td>Humidity</td>
<td>30% to 90% (no condensation)</td>
</tr>
<tr>
<td>Power</td>
<td>100 VAC - 240 VAC ±10%, 50/60 Hz</td>
</tr>
</tbody>
</table>
| 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-10ANA-AUD:** 0.1 kg  
                        | **FA-10GPI:** 0.2 kg                                                   |
| Consumables            | (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)  
                        | Dual Link 3G-SDI: 2x1080/59.94i, 50i, 29.97p, 25p (Level-B)  
                        | 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 75Ω BNC x 10  
| Video Output           | 3G-SDI: 3 Gbps, HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75Ω BNC x 10  
| Video Processing       | 4:2:2 Digital Component  
| Quantization           | 3G/HD/SDI-SDI: 10-bit  
| Genlock Input          | BB: NTSC: 0.429 Vp-p / PAL: 0.45 Vp-p; or Tri-level Sync: 0.6 Vp-p, 75Ω BNC x 1, loop-through (Terminate with 75Ω terminator, if unused.)  
<p>| Synchronizer mode      | Frame Sync, Line Sync, AVDL, or Line(Minimum) mode                     |</p>
<table>
<thead>
<tr>
<th>Video Delay</th>
<th>Maximum 8 frames (in Frame Sync mode)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Processing Functions</td>
<td></td>
</tr>
</tbody>
</table>
| 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 |
| FA-10ANA-AUD Option (Analog) | <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-UBLC 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-UBLC.)  
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
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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<tbody>
<tr>
<td>FA-10PS</td>
<td>Redundant power supply unit (Including AC cord and AC cord retaining clip).</td>
</tr>
<tr>
<td>FA-10AES-BL</td>
<td>Digital audio (balanced) I/O card</td>
</tr>
<tr>
<td>FA-10AES-UBL</td>
<td>Digital audio (unbalanced) I/O card</td>
</tr>
<tr>
<td>FA-10AES-UBLC</td>
<td>Digital audio (unbalanced) Output expansion cable</td>
</tr>
<tr>
<td></td>
<td>* Requires FA-10AES-UBL option.</td>
</tr>
<tr>
<td></td>
<td>* The FA-10AES-UBL functions as an input card when used with the FA-10AES-UBLC.</td>
</tr>
<tr>
<td>FA-10ANA-AUD</td>
<td>Analog audio I/O expansion cable</td>
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<tr>
<td>FA-10GPI</td>
<td>External I/O control card</td>
</tr>
<tr>
<td>FA-10RU</td>
<td>Remote control unit</td>
</tr>
<tr>
<td>FA-AUX30</td>
<td>GPI control unit</td>
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</tbody>
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### Accessories
- AC cord, EIA rack mount brackets, and Quick setup guide
2. External Dimensions

(All dimensions in mm.)