



OG-UDC

OG-UDC is an openGear 10-bit broadcast quality up, down, cross-converter that bridges HD and SD video resolutions. The OG-UDC provides 3G-SDI input and output, HDMI output and two 3-pin terminal block connectors for analog audio Outputs.

Designed for use in high density openGear 2RU frames including AJA's OG-X-FR frame, new DashBoard Software support on Windows®, macOS® and Linux® offers remote control and monitoring of the openGear architecture and provides convenient and industry standard configuration, monitoring and control options over a PC or local network.

<https://www.aja.com/products/og-udc>

Video Formats

- (HD) 1920 x 1080p
- (HD) 1920 x 1080PsF
- (HD) 1920 x 1080i
- (HD) 1280 x 720p
- (SD) 720 x 625i
- (SD) 720 x 576i
- (SD) 720 x 480i

- (HD) 1080i 50 (for 25 or 50 video inputs)
- (HD) 720p 50 (for 50 video inputs)
- (HD) 720p 59.94 (for 23.98, 59.94 video inputs)
- (HD) 720p 60 (for 24, 30, or 60 video inputs)
- (SD) 625i 50 (for 25 or 50 fps video inputs)
- (SD) 525i 59.94 (for 23.98 or 59.94 video inputs)

Video Input Digital

- 1x 3G-SDI BNC, SMPTE-259/292/372/424
- (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920 x 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1920 x 1080i 50, 59.94, 60
- (HD) 1280 x 720p 50, 59.94, 60
- (SD) 720 x 576i 50, 59.94, 60

Video Output Digital

- 1x 3G-SDI BNC, SMPTE-259/292/372/424
 - (HD) 1080p 23.98 (for 23.98 video inputs)
 - (HD) 1080p 24 (for 24 video inputs)
 - (HD) 1080p 25 (for 50 video inputs)
 - (HD) 1080p 29.97 (for 59.94 video inputs)
 - (HD) 1080p 30 (for 60 video inputs)
 - (HD) 1080p 50 (for 50 video inputs)
 - (HD) 1080p 59.94 (for 23.98, 59.94 video inputs)
 - (HD) 1080p 60 (for 24, 30 or 60 video inputs)
 - (HD) 1080PsF 23.98 (for 23.98 video inputs)
 - (HD) 1080PsF 24 (for 24 video inputs)
 - (HD) 1080PsF 25 (for 50 video inputs)
 - (HD) 1080PsF 29.97 (for 59.94 video inputs)
 - (HD) 1080PsF 30 (for 30 or 60 video inputs)
 - (HD) 1080i 59.94 (for 23.98, or 59.94 video inputs)
 - (HD) 1080i 60 (for 24, 30, or 60 video inputs)

Reference Source

- Free Run
- Ext Ref

Reference Input

- Supported reference video inputs include
 - 1080i tri-level sync
 - 1080p tri-level sync
 - 720p tri-level sync
 - 625i Color Black
 - 525i Color Black
- 75-ohm terminating

HDMI Output

- 10-bit HDMI v1.4a

Audio I/O

- 16-channel embedded SDI audio input
- 16-channel embedded SDI audio output
- 8-channel HDMI audio output
- Balanced analog audio outputs, 2x 3-Pin terminal block connectors

Ancillary Data

- Supports pass-through of PCM embedded audio
- Supports pass-through of non-PCM audio when source is in time with the selected ref (SDI In or Ext Ref). Non-PCM audio is not supported



during frame sync operation.

- All other ANC data is stripped

User Controls

- External DIP switch
- openGear DashBoard network control software via Windows, macOS or Linux

Size (w x d x h)

- openGear standard form factor, front slot and rear card. Two slots required for each card.

Weight

- 0.5 lb (0.3 kg)

Power

- openGear frame compatible, 7.0 watts max per card

Environment

- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)