

## OG-FiDO-4 Family

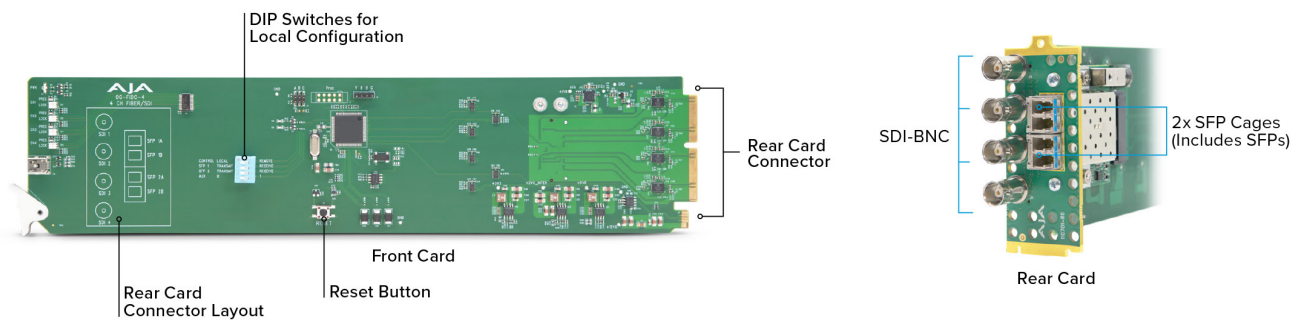
The OG-FiDO-4 family delivers high-density, four-channel SDI and fiber conversion for broadcast, production, live events, house of worship, campus installations, and Pro AV infrastructure. Designed for applications where growing camera counts and long SDI runs demand greater fiber density, OG-FiDO-4 supports up to 40 independent SDI/fiber channels in a single openGear frame.

\$0 US MSRP

Built around a common four-channel architecture, the OG-FiDO-4 family offers nine configurations for 12G-SDI single-mode, 3G-SDI single-mode, and 3G-SDI multi-mode LC fiber. Choose from four-channel transmit, four-channel receive, or two-channel transmit/two-channel receive models to match the signal direction and fiber requirements of each installation.

All four SDI BNC connections are independent and fully isolated, allowing different supported SDI data rates to be carried simultaneously. Automatic data rate detection and reclocking help maintain signal integrity, while SDI ancillary data, including HDR metadata, passes transparently through the signal path. Remote monitoring via openGear DashBoard software provides centralized operational visibility, complemented by onboard Input Present and SMPTE Lock LEDs for fast local status verification.

<https://www.aja.com/products/og-fido-4>



### OG-FiDO-4T-12G

- Video Formats
  - 270 Mbps - 12 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 4-channel independent 12G-SDI BNC connectors, SMPTE 259/292/424/2081/2082

- Video Output Digital
  - 4-channel independent 12G-SDI Single Mode LC Fiber connectors, SMPTE 297/259/292/424/2081/2082
  - Nominal Wavelength: Tx 1260 nm (Min), 1310 nm (Typ), 1360 nm (Max)
  - Optical Power: -5 dBm (Min), 0.5 dBm (Max)
  - Extinction Ratio: 3.5 (Min)
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970 Gbps, 5.934 Gbps, 5.940 Gbps, 11.868 Gbps, 11.880 Gbps - Auto Select
  - All other rates are passed through and not reclocked

## OG-FiDO-4R-12G

- Video Formats
  - 270 Mbps - 12 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 4-channel independent 12G-SDI Single Mode LC Fiber connectors, SMPTE 297/259/292/424/2081/2082
  - Nominal Wavelength: Rx 1260 nm (Min), 1620 nm (Max)
  - Optical Sensitivity: -9 dBm (Max) for 12 Gbps, -10 dBm (Max) for 270 Mbps, 1.5 Gbps, 3 Gbps & 6 Gbps
  - Overload Power: -2 dBm (Min)
- Video Output Digital
  - 4-channel independent 12G-SDI BNC Outputs, SMPTE 259/292/424/2081/2082
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970 Gbps, 5.934 Gbps, 5.940 Gbps, 11.868 Gbps, 11.880 Gbps - Auto Select
  - All other rates are passed through and not reclocked

## OG-FiDO-4X-12G

- Video Formats
  - 270 Mbps - 12 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 2-channel independent 12G-SDI BNC connectors, SMPTE 259/292/424/2081/2082
  - 2-channel independent 12G-SDI Single Mode LC Fiber connectors, SMPTE 297/259/292/424/2081/2082
  - Nominal Wavelength: Rx 1260 nm (Min), 1620 nm (Max)
  - Optical Sensitivity: -9 dBm (Max) for 12 Gbps, -10 dBm (Max) for 270 Mbps, 1.5 Gbps, 3 Gbps & 6 Gbps
  - Overload Power: -2 dBm (Min)
- Video Output Digital
  - 2-channel independent 12G-SDI BNC Outputs, SMPTE 259/292/424/2081/2082
  - 2-channel independent 12G-SDI Single Mode LC Fiber connectors, SMPTE 297/259/292/424/2081/2082
  - Nominal Wavelength: Tx 1260 nm (Min), 1310 nm (Typ), 1360 nm (Max)
  - Optical Power: -5 dBm (Min), 0.5 dBm (Max)
  - Extinction Ratio: 3.5 (Min)
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970

- Gbps, 5.934 Gbps, 5.940 Gbps, 11.868 Gbps, 11.880 Gbps - Auto Select
- All other rates are passed through and not reclocked

## OG-FiDO-4T

- Video Formats
  - 270 Mbps - 3 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 4-channel independent 3G-SDI BNC Inputs, SMPTE 259/292/424
- Video Output Digital
  - 4-channel independent Single Mode LC Fiber Outputs, SMPTE 297
  - Nominal Wavelength: 1310 nm
  - Optical Power: -5dBm (Min), 0dBm (Max)
  - Extinction Ratio: 7.5dB (Typ)
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.966 Gbps, 2.970 Gbps - Auto Select
  - All other rates are passed through and not reclocked

## OG-FiDO-4R

- Video Formats
  - 270 Mbps - 3 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 4-channel independent Single Mode LC Fiber Inputs, SMPTE 297
  - Nominal Wavelength: 1260 - 1620 nm
  - Optical Sensitivity: -18dBm (Max)
  - Overload Power: -3dBm (Min)
- Video Output Digital
  - 4-channel independent 3G-SDI BNC Outputs, SMPTE 259/292/424
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.966 Gbps, 2.970 Gbps - Auto Select
  - All other rates are passed through and not reclocked

## OG-FiDO-4X

- Video Formats
  - 270 Mbps - 3 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 2-channel independent 3G-SDI BNC Inputs, SMPTE 259/292/424
  - 2-channel independent Single Mode LC Fiber Inputs, SMPTE 297
  - Nominal Wavelength: 1260 - 1620 nm
  - Optical Sensitivity: -18dBm (Max)
  - Overload Power: -3dBm (Min)
- Video Output Digital
  - 2-channel independent 3G-SDI BNC Outputs, SMPTE 259/292/424
  - 2-channel independent Single Mode LC Fiber Outputs, SMPTE 297
  - Nominal Wavelength: 1310 nm
  - Optical Power: -5dBm (Min), 0dBm (Max)
  - Extinction Ratio: 7.5dB (Typ)
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.966 Gbps, 2.970 Gbps - Auto Select
  - All other rates are passed through and not reclocked

## OG-FiDO-4T-MM

- Video Formats
  - 270 Mbps - 3 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 4-channel independent 3G-SDI BNC Inputs, SMPTE 259/292/424
- Video Output Digital
  - 4-channel independent Multi-Mode LC Fiber Outputs, SMPTE 297
  - Nominal Wavelength: 850 nm
  - Optical Power: -7dBm (Min), -2dBm (Max)
  - Extinction Ratio: 7.5dB (Typ)
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.966 Gbps, 2.970 Gbps - Auto Select
  - All other rates are passed through and not reclocked

## OG-FiDO-4R-MM

- Video Formats
  - 270 Mbps - 3 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 4-channel independent Multi-Mode LC Fiber Inputs, SMPTE 297
  - Nominal Wavelength: 850 nm
  - Optical Sensitivity: 0dBm (Min), -15dBm (Max)
  - Overload Power: -3dBm (Min)
- Video Output Digital
  - 4-channel independent 3G-SDI BNC Outputs, SMPTE 259/292/424
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.966 Gbps, 2.970 Gbps - Auto Select
  - All other rates are passed through and not reclocked

## OG-FiDO-4X-MM

- Video Formats
  - 270 Mbps - 3 Gbps, format agnostic (150 Mbps MADI)
- Video Input Digital
  - 2-channel independent 3G-SDI BNC Inputs, SMPTE 259/292/424
  - 2-channel independent Multi-Mode LC Fiber Inputs, SMPTE 297
  - Nominal Wavelength: 850 nm
  - Optical Sensitivity: 0dBm (Min), -15dBm (Max)
  - Overload Power: -3dBm (Min)
- Video Output Digital
  - 2-channel independent 3G-SDI BNC Outputs, SMPTE 259/292/424
  - 2-channel independent Multi-Mode LC Fiber Outputs, SMPTE 297
  - Nominal Wavelength: 850 nm
  - Optical Power: -7dBm (Min), -2dBm (Max)
  - Extinction Ratio: 7.5dB (Typ)
- Reclocking
  - 150 Mbps, 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.966 Gbps, 2.970 Gbps - Auto Select
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## OG-FiDO-4 Family, User Interface

- openGear DashBoard network control software via Windows, macOS,

or Linux

## OG-FiDO-4 Family, Size

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

## OG-FiDO-4 Family, Weight

- 0.5 lb (0.3 kg)

## OG-FiDO-4 Family, Power

- openGear frame compatible, 8.0 watts max per card

## OG-FiDO-4 Family, 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)