

BG-FES12G

*12G/6G/3G/HD/SD-SDI over
Single mode SFP-type Fiber Optic Extender*

The BG-FES12G is an SDI over single mode SFP-type fiber optic extender. This device can extend multiple SDI formats (12G/6G/3G/HD) with embedded audio up to 10 km (6.25 miles) over a single-mode fiber optic cable with transmission speeds up to 11.88 Gbps.

Both transmitter and receiver units provide equalizing and re-clocking for consistent signal quality. The transmitter is also equipped with a convenient SDI loop-out for a local display. The locking power supply on both units ensures reliable connection.

FEATURES

- 4K/60 4:4:4 Support - Ultra HD refers to a TV resolution of 3840 x 2160 pixels
- Multiple SDI Formats - 12G/6G/3G/HD/SD
- High-Bandwidth - Up to 11.88 Gbps
- Extreme Range - Extend signal up to 10 km (6.25 miles)
- Automatic Reclocking - Maintains solid signal lock
- Fiber-Optic Connection - Single-Mode SFP
- Locking Power Supply - Ensures reliable connection



Specifications

Technical

SDI standard: SD-SDI/ HD-SDI/ 3G-SDI/ 6G-SDI/12G-SDI

Auto HD/SD-SDI detection: Yes

Supported protocols: SMPTE 259M (270Mbps / 360Mbps), DVB ASI (270Mbps); SMPTE 292M / HDTV (1.485Gbps and 1.485/1.001Gbps); SMPTE 424M / HDTV (2.97Gbps and 2.97/1.001Gbps); SMPTE 2082-1 / HDTV (5.94Gbps and 5.94/1.001Gbps); SMPTE 2082-2 / HDTV (11.88Gbps and 11.88/1.001Gbps)

Data rates: 270 / 1483 / 1485 / 2967 / 2970 / 5940 / 11880Mbps

Video bandwidth: [11.88Gbps & 11.88/1.001Gbps]

Video support: [HD] 720p@50/59.94/60, 1035i@50/59.94/60, 1080i@50/59.94/60,

1080p@24/30,1080p@60,1080p@59.94, 4K2K@30, 4K2K@60; [SD] NTSC@59.94Hz, PAL@50Hz

SDI signal type: SMPTE 2082-2, SMPTE 2082-1, SMPTE-424M, SMPTE-292M, SMPTE-259M, DVB-ASI

Auto reclocker mode: Automatic detection: 270Mbps / 1.483Gbps / 1.485Gbps / 2.97Gbps / 2.967Gbps / 5.94Gbps / 5.934Gbps / 11880Gbps / 11868Gbps; Automatic bypass: 177Mbps / 360Mbps / 540Mbps

Output impedance: 75ff

Fiber Transmission: 10km (6.25mi)

Loop-out: Transmitter: 1 reclocking SDI loop-out; Receiver: N/A

Input: Transmitter: 1x BNC [SDI] 1x Optical SFP [SDI]; Receiver: 1x Optical SFP [SDI]

Output: Transmitter: 1x BNC [SDI] (optional loop-out); Receiver: 1x BNC [SDI]

BNC connector: 75ff inter-locked socket

Audio support: Yes

PCB Stack-up: 4-layer board [impedance control — differential 100ff ; single 50ff]

RP-198 pathological patterns: Immune

Optical fiber connector: SFP-type

Mechanical

Housing: Metal case

Dimensions [L x W x H]: Model: 2.9" x 2.9" x 1.0" [74 x 74 x 26mm]; Package: 5.5" x 7.9" x 3" [140 x 200 x 75mm];

Carton: 1'5" x 1'4" x 11.8" [420 x 400 x 300mm]

Weight: Model: 7.4 oz [211g]; Package: 15.4 oz [440g]

Power supply: 5V 2A DC Inter-locked power supply

Power consumption: 3 Watts [max]

Industry-Leading Warranty & Support

BZBGear Pro AV products and Cameras come with a three-year warranty. An extended two-year warranty is available for our Cameras upon registration for a total of five years.

We pride ourselves in our Customer Service and seven-days-a-week Tech Support.

