

Bluebell

BN382 SDVoE UHD HDMI Extender



- Uncompressed 4K video distribution with zero-frame latency
- HDMI 2.0 and HDCP 2.2 compliant
- Supports point-to-point 4K signal transmission
- Supports point-to-multipoint and multipoint-to-multipoint switching via a 10GbE network switch
- Compact and cost-effective design for flexible deployment

The BN382 is an advanced solution that redefines the possibilities for uncompressed video and audio signal transport over fiber, delivering unmatched performance and flexibility for professional AV applications.

The BN382 leverages Software-Defined Video over Ethernet (SDVoE) technology to provide ultra-low latency and visually lossless 4K video transmission, either point-to-point over a fiber link or across standard 10G IP networks. Designed for a wide range of environments, from live event productions to control rooms and digital signage installations, this compact unit ensures robust and reliable connectivity over long distances without compromising signal quality.

Key features include support for uncompressed 4K UHD video transmission with zero latency for real-time applications. The unit is compatible with standard fibre infrastructure, enabling integration into existing networks. Its plug-and-play simplicity ensures easy setup with auto-detection and minimal configuration. The scalable architecture supports point-to-point, point-to-multipoint, and fully matrixed systems, making it versatile for various use cases. Additionally, the BN382 is designed to withstand the demands of professional environments, ensuring durability and reliability in mission-critical applications.

Specifications

Model	HDMI to Optical	Optical to HDMI
Video		
Input Video Port	1 x HDMI	1 x SFP+ (10G)
End-to-End Latency	Zero-frame latency	
Output Video Port	1 x SFP+ (10G)	1 x HDMI
Input/Output Video Resolutions	640x480 ⁸ , 800x600 ⁸ , 1024x768 ⁸ , 1280x1024 ⁸ , 1360x768 ⁸ , 1440x900 ⁸ , 1440x1050 ⁸ , 1600x1200 ⁸ , 720x480 ⁷ (480i59), 720x480 ⁷ (480p59), 720x576 ⁶ (576i50), 720x576 ⁶ (576p50), 1280x720 ⁵ (720p50), 1280x720 ⁷ (720p59), 1280x720 ⁸ (720p60), 1920x1080 ⁶ (1080i50), 1920x1080 ⁷ (1080i59), 1920x1080 ⁸ (1080i60), 1920x1080 ¹ (1080p23), 1920x1080 ² (1080p24), 1920x1080 ³ (1080p25), 1920x1080 ⁴ (1080p29), 1920x1080 ⁵ (1080p30), 1920x1080 ⁶ (1080p50), 1920x1080 ⁷ (1080p59), 1920x1080 ⁸ (1080p60), 3840x2160 ¹ (2160p23), 3840x2160 ² (2160p24), 3840x2160 ³ (2160p25), 3840x2160 ⁴ (2160p29), 3840x2160 ⁵ (2160p30), 3840x2160 ⁸ (2160p60), 4096x2160 ⁵ , 4096x2160 ⁸	
	¹ = at 23.98 Hz, ² = at 24 Hz, ³ = at 25 Hz, ⁴ = at 29.97 Hz, ⁵ = at 30 Hz, ⁶ = at 50 Hz, ⁷ = at 59.94 Hz, ⁸ = at 60 Hz	
Audio		
Input Audio Port	1 x HDMI	1 x SFP+ (10G)
Output Audio Port	1 x SFP+ (10G)	1 x HDMI
Input/Output Audio Format	LPCM, 2.0/5.1/7.1 channel, 44.1/48/96/192 kHz Dolby True HD, up to 7.1,192kHz DTS-HD Master, up to 7.1,192kHz Dolby Digital AC-3 (DVD format) DTS version 1 (DVD format)	
Control		
Control Method	Semtech BlueRiver AV Manager, ProTAV AVP Product Updater	
General		
Operating Temperature	0°C ~ 40°C 10% ~ 90%, non-condensing	
Storage Temperature	-20°C ~ 70°C 10% ~ 90%, non-condensing	
Power Supply	5V 2 A DC	
Power Consumption (Max)	4.26W	4.78W
Transmission Distance	SFP Dependant (~300m with OM-3 multimode optical fibre cable, 10km+ with single mode)	
ESD Protection	Human body model: • ±8kV (air-gap discharge) • ±4kV (contact discharge)	
Product Dimensions (W x H x D)	64mm x 22mm x 87mm each	
Net Weight	0.16kg each	



Bluebell Opticom Limited
 Unit 2 The Quadrant
 Howarth Rd
 Maidenhead
 Berks
 SL6 1AP
 UK
 Tel: +44 (0) 1628 510055, Fax: +44 (0) 1628 510057
 Email: sales@bluebell.tv Website: www.bluebell.tv

