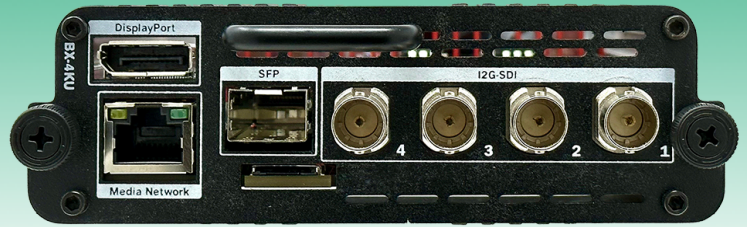# BX-4KU
### 4K Uncompressed Video Playback Module
### Model BX-4KU

The BX-4KU is an uncompressed video playback module for the BinloopX.  Each module provides a single 4K/UHD output, or up to 4 independently-controllable 2K/HD outputs.

## FEATURES:
- ▸ Purpose-Built Embedded Design
- ▸ Uncompressed DPX Video Playback
- ▸ Sources (1) 4K/UHD or (4) 2K/HD Channels
- ▸ Up to 60fps 4:4:4 10-bit Rec.2020
- ▸ 12G-SDI, 12G-SDI SFP, and DisplayPort
- ▸ U.2 High-Performance Solid State Media
- ▸ Integrated 1.3" Confidence Monitor
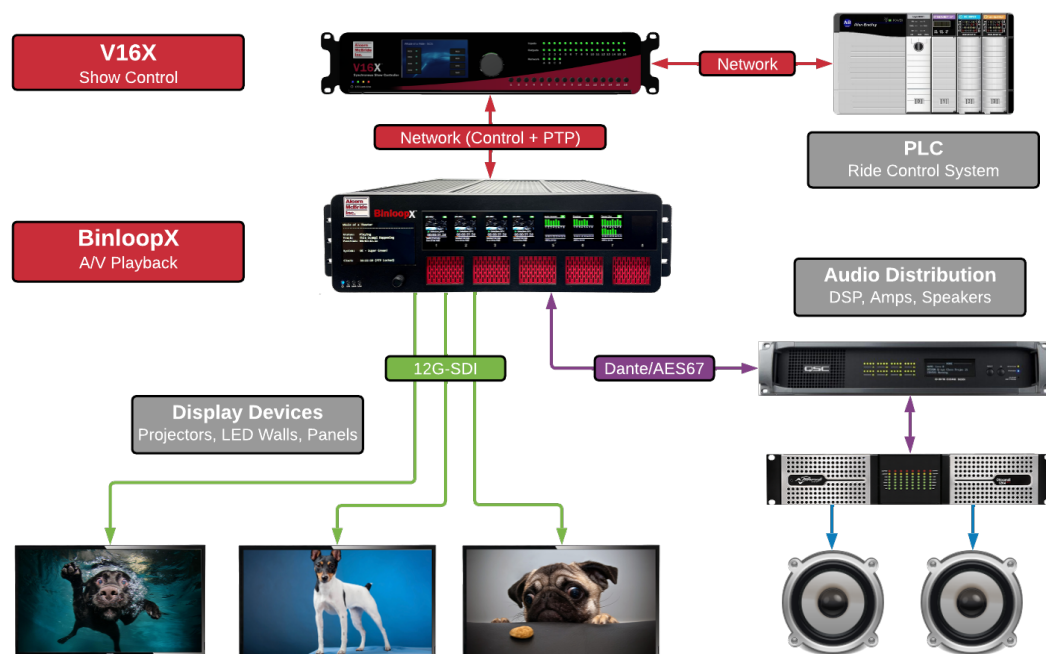- ▸ Remote Content Update via Ethernet

## APPLICATIONS:
- ▸ Dark Rides
- ▸ Parades
- ▸ Interactives
- ▸ Museum Exhibits
- ▸ Visitor Centers

The industry's favorite synchronized A/V player has been completely reengineered with our X-Series architecture to be the ultimate A/V platform for themed attractions.  By leveraging the power of our industry-standard show control engine and the precision of our advanced SyncCore synchronization system, the BinloopX integrates perfectly with the Alcorn McBride ecosystem of products.  This makes it the perfect solution to add high-quality A/V playback to any attraction.

Each BX-4KU video module provides either a single channel of 4K/UHD playback, or up to four channels of 2K/HD playback.  This allows you to fill your displays with almost 9 million pixels of stunning uncompressed quality content at up to 60 frames-per-second.  Professional-grade outputs like 12G-SDI Coax and 12G-SDI SFP allow for easy distribution without the need for extender devices.  The removable internal SSD enables ultra-reliable low-latency playback of your DPX image sequences.
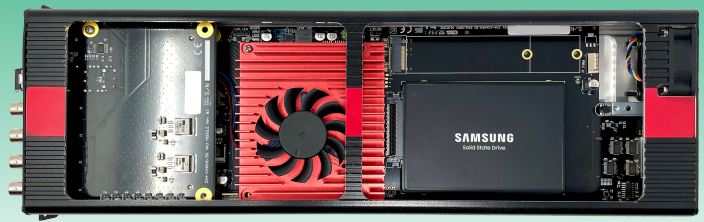
The modular design of the BinloopX makes it super-simple to scale up to meet the needs of your attraction.  With multiple BX-4KU modules, a single BinloopX chassis can provide up to (2) channels of 8K, (8) channels of 4K/UHD, or (32) channels of 2K/HD.

Experience the ultimate in audio and video playback with Alcorn McBride reliability.

# BX-4KU

4K Uncompressed Video Playback Module
Model BX-4KU

## PRODUCT SPECIFICATIONS

### Video

| | |
|---|---|
| **Resolutions** | 4096 x 2160 (4K) |
| | 3840 x 2160 (UHD - 2160p) |
| | 2048 x 1080 (2K) |
| | 1920 x 1080 (1080p) |
| | 1280 x 720 (720p) |
| **Frame Rates** | 23.976, 24, 25, 29.97, 30, 47.952, 48, 59.94 |
| **Chroma Sampling** | 4:4:4 |
| | 4:2:2 |
| **Color Depth** | 10-bit |
| | 8-bit |
| **Video Outputs** | Coax 12G-SDI, 6G-SDI, 3G-SDI (4 x BNC) |
| | SFP 12G-SDI (SFP Module) |
| | DisplayPort 1.4 |
| **Media Format** | Digital Picture Exchange (DPX) |
| **Media Network** | 10/100/1000 BASE-T (RJ45) |
| **Media Storage** | U.2 NVMe SSD (Up to 8TB) |
| **Preview Monitor** | Integrated 1.3" Monitor |
| | Playback Status and Timecode |
| | Output Preview |

### Synchronization

| | |
|---|---|
| **Clock Accuracy** | <1 uS /w <1ppB Free-run accuracy |
| **Reaction Time** | <1 Frame (When scheduled) |

### Physical

| | |
|---|---|
| **Power** | Powered by BinloopX Chassis |
| | 45W Typ, 60W Max |
| **Dimensions** | 1.6"W x 14.9"D x 5.1"H (40mm x 378mm x 130mm) |
| **Weight** | 2 lbs (0.9 kg) |
| **Environment** | 0°C (32°F) to 38°C (100°F) |
| | 0-90% Relative Humidity |
| **Mounting** | BinloopX A/V Module Slot |
| **Compliance** | UL, CE, CB, WEEE, RoHS |

**Alcorn McBride Inc.**

*Specifications subject to change without notice.*