

# BinloopX

Multi-channel Synchronous AV Platform  
Model BINLOOPX



## AUDIO/VIDEO

The BinloopX is a modular multi-channel Audio/Video platform designed to handle all of your high-quality synchronized playback needs.

### FEATURES:

- Purpose-Built Embedded Design
- Precise Clock Sync via PTP, NTP, or GPS
- Genlock Input/Output
- SMPTE Timecode Generator/Reader
- TFT Status Displays
- Uncompressed Audio/Video Playback
- Modular Architecture
- Redundant Power Supply

### APPLICATIONS:

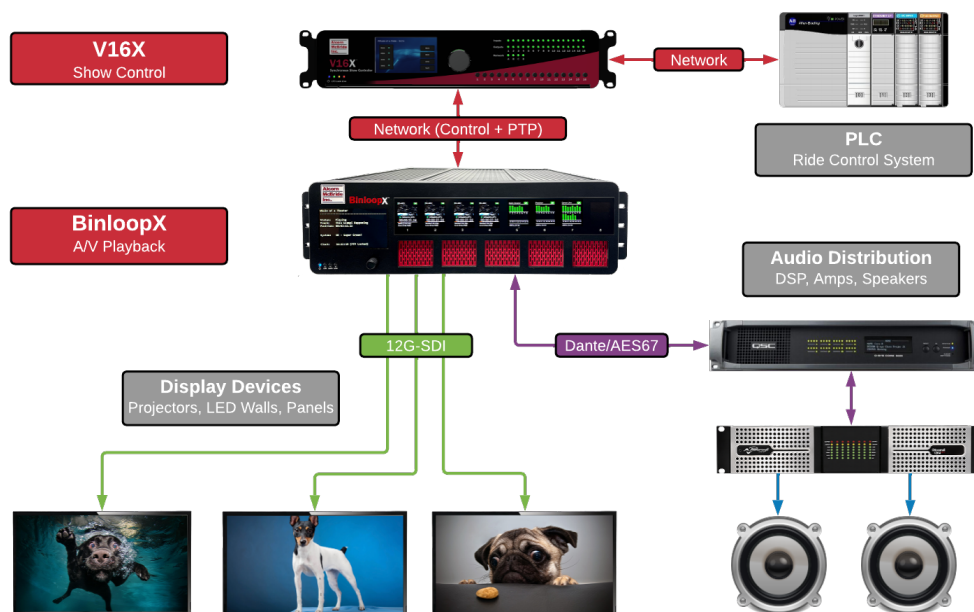
- Dark Rides
- Parades
- Interactives
- Museum Exhibits
- Visitor Centers

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 seamlessly with the Alcorn McBride ecosystem of products. This makes it the perfect solution to add high-quality A/V playback to any attraction.

The BinloopX itself is a 3U rack-mount chassis complete with redundant power supply, BX-CON1 control module, TFT status displays, and 8 slots that can be used to install A/V modules as needed. The BX-CON1 control module is equipped with our X-Series show control platform and SyncCore system, which provides extremely versatile control features and precise synchronization with other attraction systems via PTP, NTP, GPS, SMPTE LTC or Genlock. This system also provides sample-accurate audio clocks and frame-accurate video clocks for all A/V modules installed within the BinloopX chassis.

With multiple BX-4KU video modules, a single BinloopX chassis can provide up to (2) channels of 8K, (8) channels of 4K/UHD, or (32) channels of 2K/HD. With BX-16A audio modules, a single BinloopX chassis can provide up to 128 outputs of 24-bit 48kHz uncompressed audio with up to 512 tracks of audio playback that can be mixed to those outputs. These modules can be mixed and matched as needed to scale the capabilities of the BinloopX to meet the needs of your attraction.

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



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## AUDIO/VIDEO

### PRODUCT SPECIFICATIONS

#### Audio/Video

Module Slots	8
Available Modules	<b>BX-16A</b> - Audio Playback - 16-Channel, 64-Track Polyphonic Playback, 16x16 Dante/AES67, DSP <b>BX-4KU</b> - Video Playback - 1-Channel 4K/UHD, 4-Channel 2K/HD, 12G-SDI SFP, 12G-SDI Coax, DisplayPort See individual cut sheets for more detailed specifications on these modules

#### Control

Show Control	Advanced Scripted Control Timeline Programming Media File Management
Display	4.3" TFT LCD Main Display + 8 x 1.8" A/V Module Status Displays
Indicators	Power, LTC, Sync, Live Mode
Ethernet	100/1000 BaseT Ethernet (RJ45)
Serial	RS232/RS422 (7-pin Phoenix)
Digital Inputs	8 x Contact/Voltage Inputs (2 x 8-pin Phoenix) Software Configurable for Voltage (5-24VDC) or Contact Closure

#### Synchronization

Sync Inputs	PTP In - IEEE1588/CIP-Sync (RJ45) NTP In - (RJ45) GPS In - (7-pin Phoenix) SMPTE LTC In (3-pin Phoenix) Genlock In - Blackburst, C-Sync, Tri-level (BNC)
Sync Outputs	PTP Out - IEEE1588/CIP-Sync (RJ45) NTP Out (RJ45) SMPTE LTC Out (3-pin Phoenix) Genlock Out - C-Sync (BNC)
Frame Rates	23.976, 24, 25, 29.97, 30, 47.952, 48, 50, 59.94, 60
GPS Type	NMEA-0183 /w PPS Clock Input
Clock Accuracy	PTP - <1uS /w <1ppB Free-run accuracy NTP - <1mS /w <10ppB Free-run accuracy GPS - <1uS /w <1ppB Free-run accuracy

#### Physical

Power	110-240VAC Redundant Power Supply 150W Typ, 300W Max
Dimensions	19.3"W x 17.2"D x 5.2"H (490mm x 437mm x 131mm)
Weight	Empty Slots - 20 lbs (9.1 kg) Fully Loaded - 36 lbs (16.3 kg)
Environment	0°C (32°F) to 38°C (100°F) 0-90% Relative Humidity
Mounting	3U 19" Rack-Mount
Compliance	UL, CE, CB, WEEE, RoHS

**Alcorn  
McBride  
Inc.**