

RIDEplayerX™

The Ultimate On-Board Audio and Show Control Platform
Model RIDEPLAYERX



ONBOARD AUDIO

RidePlayerX™ has been carefully designed to be the perfect solution for the unique challenges of on-board (vehicle-based) audio and show control systems within themed attractions.

FEATURES:

- ▶ Up to 64 Tracks of 24-bit 48kHz WAV Playback
- ▶ X-Series Show Control Engine
- ▶ Effortless Ride System Integration
- ▶ Advanced Synchronization (PTP, NTP, GPS, LTC)
- ▶ 16x16 Dante/AES67 Network Audio
- ▶ Powerful RideAmp Integration
- ▶ Rugged, Compact, Vibration-Resistant Design
- ▶ Monitored DC-Power Input

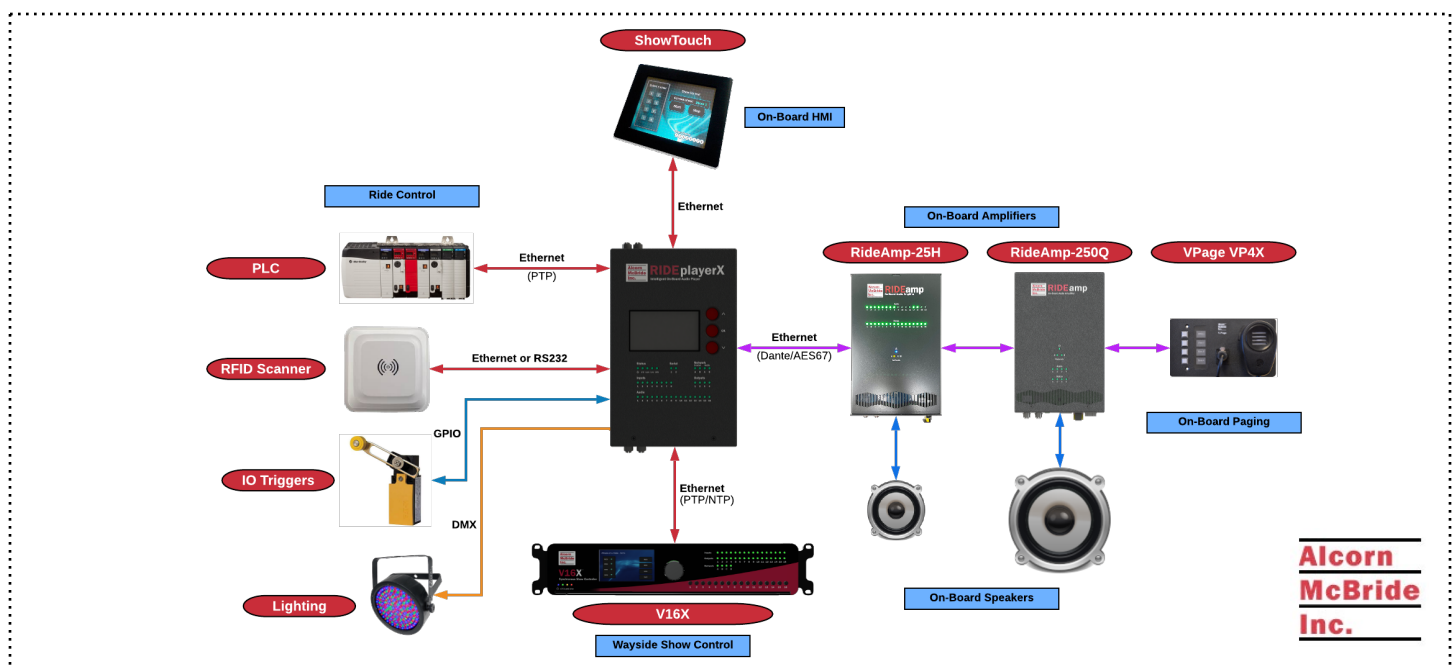
APPLICATIONS:

- ▶ Dark Ride Vehicles
- ▶ Coasters
- ▶ Transportation Systems
- ▶ Parades

The requirement to precisely synchronize on-board audio with wayside audio, video, lighting, animatronics, etc. is critical for most ride applications. RidePlayerX accomplishes this by implementing our state-of-the-art SyncCore system that can use one of several industry-standard methods such as PTP, NTP, GPS, and SMPTE LTC to maintain lock between on-board and wayside devices.

The ability to integrate with common on-board sub-systems is also easily achievable thanks to power and flexibility of the integrated Alcorn McBride X-Series Show Control engine. This means seamless integration with devices like on-board PLCs, animation controllers, sensors, lighting systems, video servers, and ShowTouch panels.

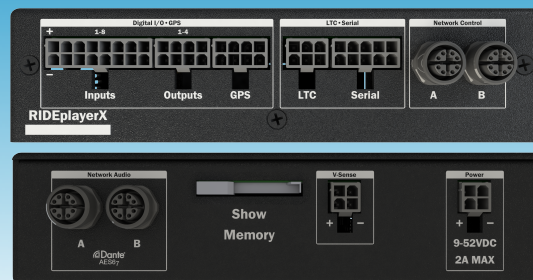
The primary purpose of this device is to provide high-quality audio playback so it has a wide-range of features to suit that purpose well. It provides 16 outputs of 24-bit 48kHz uncompressed audio playback with the ability to route, mix, and crossfade up to 64 source tracks simultaneously. These outputs can be cleanly distributed to our RideAmp family of on-board amplifiers using all-digital Dante or AES67 network audio. To ease production workflow, support gaming engines, and integrate with paging systems, this same network audio interface can also accept up to 16 external audio inputs and elegantly mix them into the on-board audio system.



**Alcorn
McBride
Inc.**

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PRODUCT SPECIFICATIONS

CONTROL	
Show Control	Advanced Scripted Control Timeline Programming ShowTouch Touch Panel Integration Intuitive Device Control (PLC, DSP, Animation, AV, etc.)
Display	4.3" TFT LCD w/navigation buttons
LED Indicators	Power, LTC, Lock, Live Mode, Serial, Ethernet, Inputs, Outputs, Audio Status
Ethernet	2 x 10/100/1000 BaseT (M12 X-Coded)
Serial	2 x RS232/RS422 (10-pin Molex)
DMX	1 x DMX Universe (10-pin Molex)
Digital Inputs	8 x Contact/Voltage (5-24VDC) Inputs (16-pin Molex)/400k Input Impedance (Voltage Mode)
Digital Outputs	4 x Solid State Relay Outputs w/400mA self-healing fuses (8-pin Molex)
Voltage Sense Inputs	1 x Power Supply Voltage-Sense 0-52VDC (Internal) 1 x External Voltage Sense 0-100VDC (4-pin Molex)
Show Memory	Removable SD card w/Captive Socket
AUDIO	
Playback	64 playback tracks 16-bit or 24 bit WAV 44.1kHz or 48kHz Sample-accurate
DSP	9-band Parametric EQ High-Pass, Low-Pass, Notch Filters Phase Shift, Treble Shelf, Bass Shelf
Network Audio	16 x 16 AES67/Dante Interface - (2 x M12 X-Coded - Network Audio A or B)
Media	256GB M.2 SSD (Internal)
SYNCHRONIZATION	
Sync Inputs	PTP In - IEEE1588/CIP-Sync (M12 X-Coded - Network Control A or B) NTP In (M12 X-Coded - Network Control A or B) GPS In (8-pin Molex) SMPTE LTC In (6-pin Molex)
Sync Outputs	PTP Out - IEEE1588/CIP-Sync (M12 X-Coded - Network Control A or B) NTP Out (M12 X-Coded - Network Control A or B) SMPTE LTC Out (6-pin Molex)
Frame Rates	23.976, 24, 25, 29.97, 30, 47.952, 48, 50, 59.94, 60
GPS	NMEA-0183 w/PPS Clock Input
Clock Accuracy	PTP - <1µs NTP - <1ms GPS - <1µs
PHYSICAL	
Power	9-52VDC @ 2A MAX - 15W Typical
Size	7" W x 11.88" L x 1.9" H (178mm x 302mm x 49mm)
Weight	2.75 lbs (1.25kg)
Environment	0°C (32°F) to 45°C (113°F) 0-90% relative humidity, non-condensing/20 g max vibration
Compliance	UL, CE, CB, WEEE, RoHS

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Specifications subject to change without notice.