

# 1064

## Intelligent Input/Output Expander

File Tape

Today in the Mission

Alcorn  
McBride  
Inc.

1064 Input / Output Expansion Module

Outputs

Inputs

The Alcorn McBride 1064 Input/Output Expander is a versatile, economical solution to your discrete input and output needs. It is also well suited to the stand alone control of small shows.

Offering 32 optically isolated inputs and 32 contact-closure outputs, this device is an ideal interface for many show control applications, including illuminated pushbuttons, limit/overtravel switches, lights, theatre doors, water valves, actuators and pneumatics. Rear mounted plug-on screw terminal strips make field interconnection fast and reliable.

The 1064 serves as an ideal expansion interface to give the Alcorn McBride family of show control products (or any computer equipped with an RS-232 port) enhanced I/O capability. It converts RS-232 serial messages to contact-closure outputs while simultaneously translating voltage inputs into RS-232 messages. Complex patterns of output closures can be pre-loaded into the 1064, and then run automatically upon powerup, or triggered remotely from any computer or show controller.

But the 1064 can do much more than simple translation. It also includes one user-programmable RS-232 port to control all major brands of Laserdisc players, or other serial devices. The 1064 can be programmed to respond intelligently to various input combinations, controlling its serial port and relay outputs independently of any other piece of equipment. In this mode of operation, the 1064 can control a complex show entirely by itself. A single 1064 may be all the show control you ever need.

- Expanded I/O or Stand Alone
- 32 Opto Inputs, 32 Relay Outputs
- Laser Disc Control Port
- Pioneer, Sony & Other Protocols
- 256 Multi-Tasking Sequences
- RS-232 and MIDI Interfaces

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The Mission Status Center at Space Center Houston uses an Alcorn McBride V16 and I/O Expanders to interface to over 250 controls.

# IO64

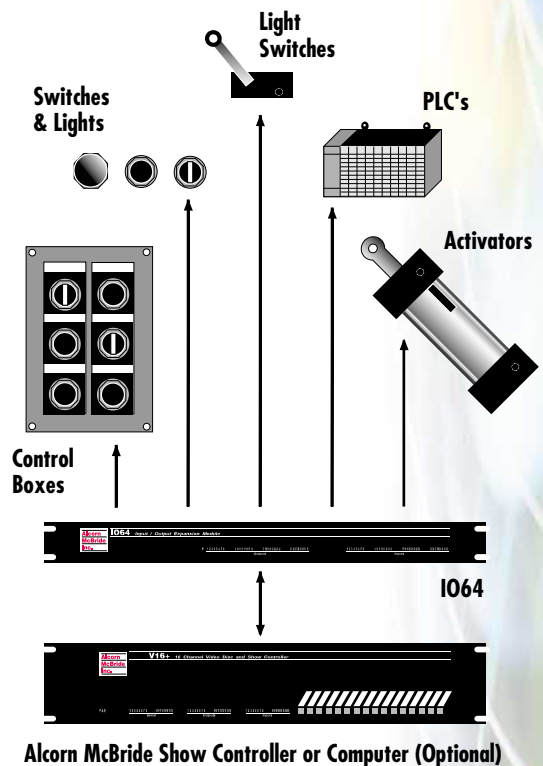
## Intelligent Input/Output Expander

### IO64 SPECIFICATIONS

- Size:** Standard 1U rack mount (1.75" x 19" x 5")
- Weight:** 42 ounces
- Power:** 115/220 VAC, 50/60 Hz, 20 W maximum  
UL listed Class 2 power adapter included with every unit
- Environmental:** 0 to 35 C (32 to 100 F)  
0 to 90% relative humidity, non-condensing  
Free air circulation
- Front Panel:** LED indicators for system power, status of 32 inputs, and status of 32 outputs.
- Rear Panel:** Power jack (female 5-pin DIN)  
Programming port (male DB-9)  
Remote port (male DB-9)  
Input connections (4 male 16-pin Phoenix)  
Output connections (4 male 16-pin Phoenix)  
MIDI input (female 5-pin DIN)
- Voltage Inputs:** 24 VDC, 20 mA maximum  
Reconfigurable for voltages down to 5 VDC
- Relay Outputs:** Contact closures limited internally to 0.9 A with self-restoring polymer fuses.
- Show Memory:** 8 KByte EEPROM, expandable to 24 KBytes.  
Nonvolatile, robust memory retains show data permanently with no battery backup required.
- Show Capacity:** 256 simultaneous sequences.
- Programming:** Standard RS232-C serial connection
- Documentation:** Owner's Manual  
Application Notes  
Sample scripts on diskette

Specifications subject to change without notice

**Applications:**  
I/O Expansion  
Show Control  
Games



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