# SandBox SB-AAA2/100™

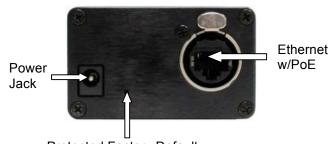## Portable 2 Universe Multi-Protocol Node with PoE

- **Compact portable unit for DMX-on-Demand™.**
- **Protocol support for Art-Net, sACN E1.31, ACN E1.17, AVAB IPX/UDP, Color-Net, Compulite, ETCNet2/Net3, HDL-Net, Hydra-Net, Pathport, SA-Net, SandNet, & Strand ShowNet.***
- **Two bi-directional DMX-512A ports.**
- **User selectable per port Ethernet to DMX or DMX to Ethernet.**
- **Self-healing ESD & transient protection.**
- **Available with male or female XLRs or combination.**
- **LEDs indicate DMX port direction and activity.**
- **Powerful 32bit ARM processor.**
- **Support for both 10BaseT and 100BaseT.**
- **Auto MDI/MDI-X for straight or cross-over CAT5/6 cabling.**
- **Power over Ethernet PoE 802.3af or external supply.**
- **Free software for configuration, testing, and management.**

The SB-AAA2/100 was designed as a versatile and comprehensive connectivity solution for a wide variety of the Ethernet protocols commonly used in stage, studio, and architectural lighting systems. This highly portable and rugged package enables DMX-over-Ethernet input and output for the majority of today's lighting control systems, show controllers, and visualizers.

The two DMX ports are bi-directional for maximum flexibility so that any port, independent of the XLR connector gender, can be configured as an input or output. The SB-AAA2/100 supports 10BaseT and 100BaseT for unparalleled throughput and easy integration with any network topology. Auto MDI/MDI-X eliminates the need to worry about straight vs. cross-over cabling. Power over Ethernet provides effortless power to the unit via PoE switches or mid-span injectors. An external wall-wart style power supply can be used when PoE is unavailable.

SandBoxes are easily configured and managed with the free Sand Device Browser or with any other SandNet software application. A factory default button provides a convenient configuration starting point for the novice user. SandBoxes also supports firmware uploads over Ethernet to accommodate the rapidly evolving world of entertainment networks.

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# Specifications:

Enclosure:
Extruded black anodized aluminum.
Molded urethane feet.
40 x 67 x 113mm / 1.6 x 2.6 x 4.5".
222g / 7.8 oz.

SB-AAA2/100FF    SB-AAA2/100MM

SB-AAA2/100MF

Connectors:
2 x DMX - gold plated 5P M or F XLR.
1 x Ethernet - Neutrik EtherCon™ RJ-45.
1 x Power jack 2.0x6.5mm, positive center pin.

Port 1      Port 2

DMX Out   DMX In   Heartbeat

User Interface:
1 x Status / heartbeat indicator LED.
2 x DMX input status and activity LED.
2 x DMX output status and activity LED.
1 x Factory default configuration button.

Ethernet
w/PoE

Power
Jack

Power:
Power over Ethernet IEEE 802.3af 2W 48V
or 9 - 12VDC 300mA Max on power jack.

Protected Factory Default
Button

## Ordering Info:

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|---|---|
| SB-AAA2/100FF | SandBox AAA2/100 with 2 female XLR connectors. |
| SB-AAA2/100MM | SandBox AAA2/100 with 2 male XLR connectors. |
| SB-AAA2/100MF | SandBox AAA2/100 with 1 male and 1 female XLR connector. |
| SB-PWR/120 | External 120V power supply North America – Edison / U-ground |
| SB-PWR/U | External 100-240VAC universal power supply with global adapters |
| SN-CD | Sand Device Browser on CD |

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## * NOTICE - Multi-Protocol Support

**Note that legacy protocols such as AVAB IPX/UDP, Color-Net, Compulite, ETCNet2/Net3, HDL-Net, Hydra-Net, Pathport, SA-Net, SandNet, & Strand ShowNet, as well as ACN E1.17, might not be implemented to support all possible configurations and use scenarios.**

**Contact Sand Network Systems before you purchase a SandBox for use with these protocols to ensure that it will work as intended in your particular application.**

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Free configuration and management software is available to download from: www.sandsys.com

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