OMNILINK
BY BLACK DIAMOND SOLUTIONS

OMNILINK Wireless & Hubs

Multiple OmniLink Interfaces can be integrated by using an OmniLink Hub. The Interfaces can be connected to the Hub via USB cables or upgraded to wireless connectivity.

Wireless Hub

4 Interface Hub with Wireless option

6 Interface Hub with Wireless option + 2 USB ports

WIRELESS HUB (BDS-5410):

The Wireless Hub connects to the BrightSign via USB and supports multiple wireless Interfaces.

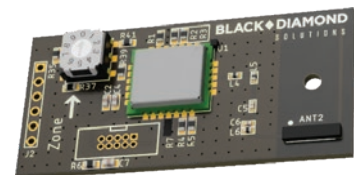### 4 INTERFACE HUB WITH WIRELESS OPTION (BDS-5416):

The 4 Interface Hub connects to the BrightSign via USB and supports up to 4 Interfaces.   Wireless Interfaces can also be added when a Wireless Card is installed in the Hub.

6 INTERFACE HUB WITH USB AND WIRELESS OPTION (BDS-5400):

The 6 Interface Hub connects to the BrightSign via USB and supports up to 6 Interfaces.   Wireless Interfaces can also be added when a Wireless Card is installed in the Hub. The Hub has 2 USB expansion ports for connecting other USB devices to the BrightSign.
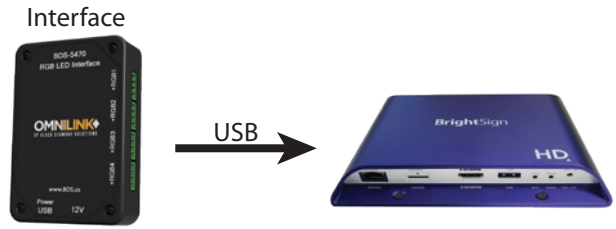
OMNILINK WIRELSESS CARD:

The OmniLink Wireless Card can be installed in both the BDS-5416 and BDS-5400 Hubs, as well as many of the Interfaces to add wireless communication.
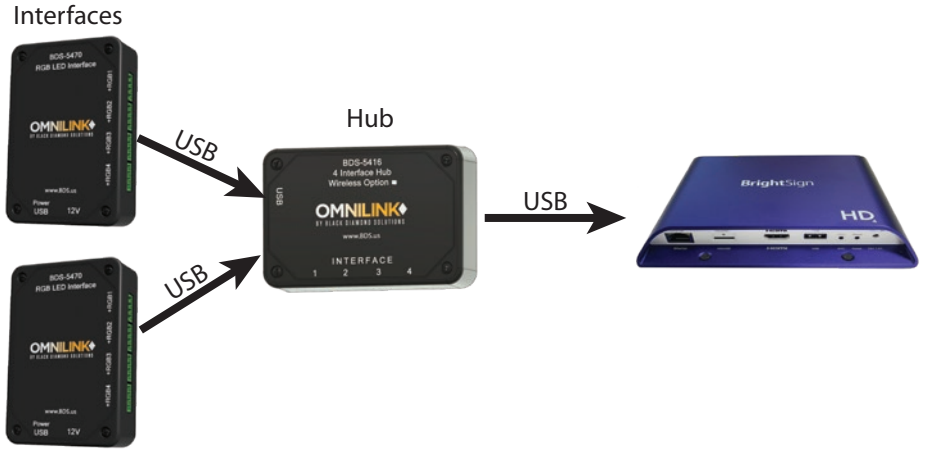

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SYSTEM OVERVIEWS:

Interface

Connect one Interface directly to a BrightSign via USB.

USB

Interfaces

Connect several Interfaces via USB with an OmniLink wired Hub.

USB

Hub

USB

USB

Interfaces

Connect several Interfaces wirelessly with an OmniLink Wireless Hub.

Wireless Hub

USB

Interfaces

Hub with Wireless Card

Connect several Interfaces both wired and wirelessly with an OmniLink Hub with Wireless Card installed.

USB

USB

USB

*Note: Interfaces must have a Wireless Card installed to support wireless operation.

Interfaces

v7/21

OMNILINK OPERATION

The OmniLink Interfaces use the Serial over USB protocol to connect to a Hub or the BrightSign. The OmniLink connection to the BrightSign is managed to make all Interfaces connect to the BrightSign via Port2 on the BrightSign. This allows for different OmniLink configurations to be put together without having to change the Port number in BrightAuthor. Port 2 should always be specified in BrightAuthor as the connection to the Interfaces.

Only Interfaces can be connected to the USB Interface ports on the Hubs. It does not matter which Interface port the Interface is connected to.

USB devices connected to the 2 USB expansion ports on the 6 Interface Hub (BDS-5400) will map to Port 3 & Port 4 on the BrightSign. OmniLink Interfaces should NOT be connected to the 2 USB expansion ports as the Port numbering may be unpredictable and cause the BrightAuthor script to work unreliably.

The Interfaces have a rotary switch (0-9) that can be access by removing the cover. The rotary switch is used to set a Device ID. When multiple Interfaces of the same model are used then a unique Device ID must be set in each unit. This ID is used in BrightAuthor to specificy which Interface is being communicated with.

OMNILINK WIRELESS

OmniLink Wireless operates on 868 MHz (Europe) and 915 MHz (North America) frequency. It is a closed system and will only communicate with other OmniLink Wireless devices. Depending on the environment the Wireless devices can have a range of several hundred feet. A Hub will support a high number of Wireless Interfaces.

An Interface with a Wireless Card will communicate via both USB and Wireless. Connecting via USB and Wireless at the same time may create unexpected behavior as duplicate commands will be circulated.

The Wireless Card and Wireless Hub have an rotary switch (0-9) that is accessable by removing the cover. The rotary switch is used to set a Zone #. All wireless devices must all be set to the same Zone to operate together. If you are using multiple seperate systems then each system must be set to a unique Zone to keep the systems from interfereing with each other. The Zone is only used to ensure the correct Hub and Wireless Interfaces are talking to each other. It is not used within BrightAuthor. Do not confuse Zone with Device ID.