Technical Overview

UX BYOM Smart Switch

ab. | X-Range

USB-C Enabled AV Connectivity Solutions

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Introduction.

The UX BYOM Smart Switch is an intelligent USB switch/hub which allows the switching of USB peripherals between a room PC/NUC and a laptop.

The UX has:
• 2 host ports to connect to laptop/room PC
• 3 device ports for connecting speaker bars, cameras etc.

Designed to partner the Ashton Bentley Interconnect Kit (DX2 Room Hub + TX2 Table Hub).

Two modes of operation:

Control.
The UX switches USB devices away from Room PC/NUC to the laptop. In this mode the UX is powered from the DX2 via the ABNET connection.

Standalone.
When a laptop USB connection is detected, the USB devices are automatically switched from Room PC/NUC to the laptop. When the laptop is disconnected, the devices switch back to the room PC. In this mode the UX requires a separate PSU.

Dynamic USB 3.0 5V power switching

Why is USB power switching/control important?

Some Videobars can only switch in and out of device mode if 5v is present in the USB connection.

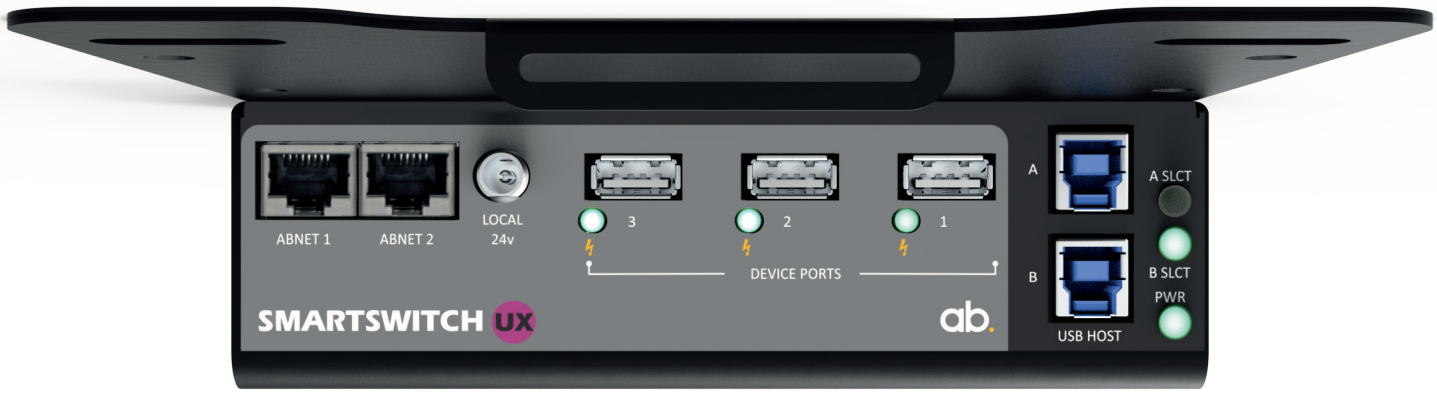
Most 3rd party USB hubs permanently power the USB sockets when a power supply is attached, and so the Videobar 'remains' in device mode and many fail to detect when a new laptop is connected.

With our dynamic 5v switching, when the UX switches host, the 5v on the USB device ports are automatically turned off momentarily allowing the Videobar to revert to 'normal' mode.

This unique feature prevents devices locking up or going into 'device mode' when they should not.

UX BYOM Smart Switch - Connectivity Overview.

Connectivity Plate 1.



LED	Colour	Function
Device Ports 1, 2 & 3	Blue	Lit = Device port USB 5v active.
A SLCT	Green	Lit = Host selected. Flashing = Host connected but not selected.
B SLCT	Green	Lit = Host selected. Flashing = Host connected but not selected.
PWR	Red	Lit = Unit powered.

Connection	Type	Function
ABNET 1	RJ45	Control bus. Connection to DX2.
ABNET 2	RJ45	Control bus. Loop on to additional ABNET devices.
Local 24v*	DC power jack	Optional local power supply.
Device Ports 1, 2 & 3	USB-A	USB connections for Video bar, camera, loudspeaker and mic.
USB Host A	USB-B	USB from Laptop / Room PC
USB Host B	USB-B	USB from Laptop / Room PC

*Note: Previous version of the UX had an optional 5v PSU. This earlier version can be identified by the absence of the 3 Device Port LED indicators.

Do not connect the new 24v PSU to the previous version, or the older 5v PSU to the new version of UX.

Please read the legend for the local power connection and match to an appropriate power supply.

Using an incorrect Power Supply will invalidate the warranty.

Connectivity Plate 2.

Connection	Type	Function
Service	Micro USB	Service port for firmware upgrade.

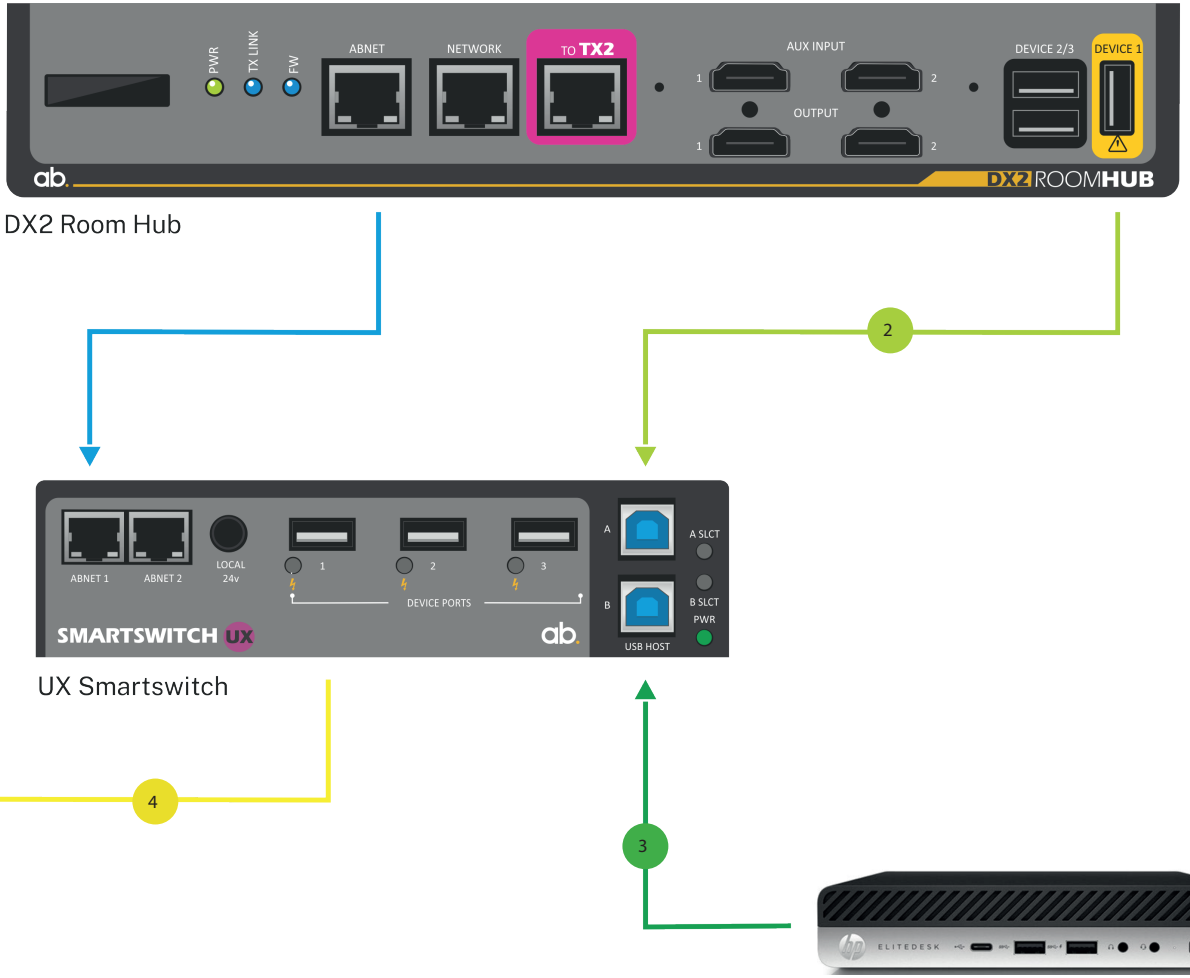
Control Mode.

If used in Standalone mode (without a TX2 / DX2) you will require the optional power supply (part no. 900-00585) to power the UX.

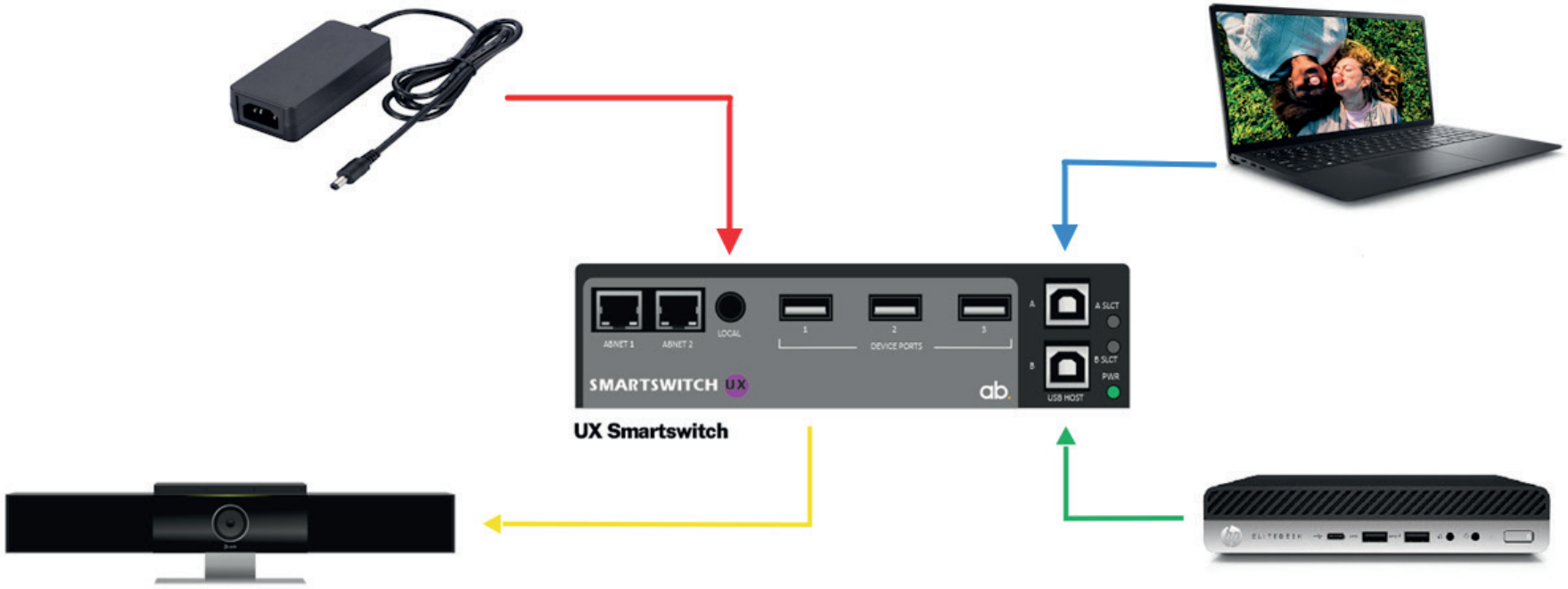
There is no configuration required for this mode of operation.

When laptop USB connection is detected by the UX the USB devices are automatically switched from Room PC/NUC to the laptop. When the laptop is disconnected, the devices switch back to the room PC.

When the UX is switching between hosts, the USB power to the device ports will turn off momentarily, in order to ensure the



Standalone Mode.



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When the UX is switching between hosts, the USB power to the device ports will turn off momentarily, in order to ensure the connected devices initialize correctly with the new host.

UX Specification.

ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Inputs	2 x USB-B Hosts 1 x 24v DC Jack 2 x ABNET control ports
Outputs	3 x USB-A Ports [With 5v power switching] — Max 5v @ 0.9A per port
Housing:	Metal Enclosure
Color:	Black
Shipping Weight	0.5Kg,
Dimensions	See Mechanical Dimensions (Pg22)
Power Supply	Over ABNET from DX2, or via optional PSU
Power Consumption	3W (excluding connected USB devices)
Operating Temperature	32 -104°F / 0 -40°C
Storage Temperature	-4 -140°F / -20 -60°C
Relative Humidity	20 -90% RH (no condensation)

Optional Accessories.

UX Charging PSU 100W

Part No. 900-00585-xx

When connected by cable or Retractor to the TX2, the USB-C connected device receives 100W charging power

Mechanical Dimensions.

The UX unit is housed on a standard Ashton Bentley back plate for mounting under furniture or inside cabinets.

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