

Study Room

Study rooms provide a quiet space for students to concentrate on their work in private or in small groups. For the latter, an AV system with large flat panel display allow participants to share content from their personal device with the group for collaboration purposes. AV system operation is intuitive for non-frequent users with little or no training.

Needs Assessment

- Purpose** This small, enclosed meeting space shall include an AV system that allows users to share content from a BYOD device with the entire group
- Display** Flat panel display of sufficient size for critical viewing by all participants
- Sources** Provide HDMI connection for users to connect their personal devices
- Control** Power on/off and source selection shall be automatic requiring minimal user intervention and no remote or control panel
- Audio** Sound from personal devices shall be routed to the flat panel display speakers
- Cable** Select the appropriate Category cabling system for Ethernet communications

System Design Solution

Below are the Atlona and Panduit products and detailed descriptions related to a study room AV system.

Routing

The Atlona **AT-DISP-CTRL** display controller handles AV routing for the system. It provides one HDMI input for a source device, and one HDMI output for the display. Both HDMI connections support resolutions up to 4K/60 4:4:4 and HDR. The controller connects to the display via an **AT-LC-H2H-3M** three meter LinkConnect HDMI to HDMI cable.

Control

The AT-DISP-CTRL also provides automatic control for the system. When an HDMI source is connected, it detects



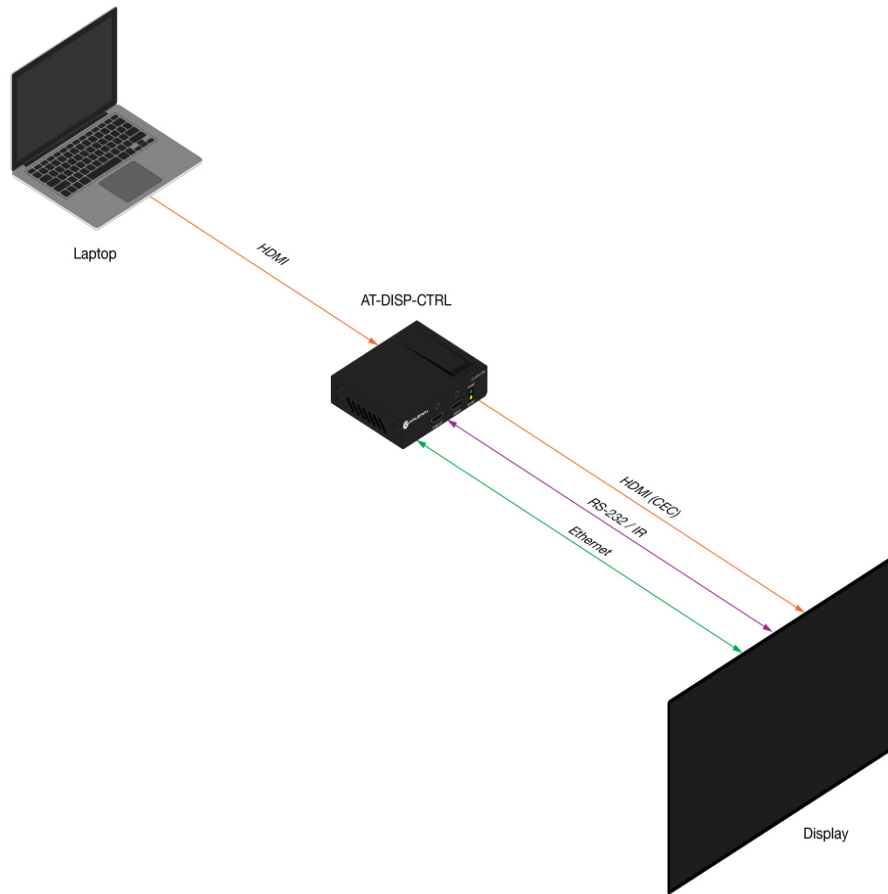
the active signal and sends an RS-232, IR, Ethernet, or CEC command to power up the display. When the device is disconnected, the AT-DISP-CTRL sends a command to power down the display.

Sources and Access

A Panduit **PND100** nook style table box installed in the table manages access to cables and power. It includes two Type A USB power connections for charging user devices. The installed Panduit **PND400** HDMI retractable cable provides the interface for users to connect their personal devices. Simply pull the HDMI cable from the retractor and lock it at the appropriate distance for the device. When finished, a tug on the cable releases the lock and allows it to be retracted, reducing cable clutter. When not in use, the access door on the PND100 may be closed for an aesthetically clean table surface.

Cabling and Connectivity

Connect the display controller to the display with a Panduit UTP patch cord. Small diameter patch cords route easily, and provide the performance needed for reliable display control.



Study Room Bill of Materials

QTY	Description	SKU
1	Atlona Compact Display Controller	AT-DISP-CTRL
1	Atlona LinkConnect HDMI to HDMI	AT-LC-H2H-3M
1	Panduit Nook style table box	PND100
1	Panduit HDMI retractable cable	PND400
1	Panduit Category 6A 28 AWG UTP Patch Cord	UTP28X7BL



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