



# SMART Board®

## MX | MX Pro

series interactive displays

## Installation and maintenance guide

SBID-MX255-V4 | SBID-MX265-V4 | SBID-MX275-V4 | SBID-MX286-V4  
SBID-MX255-V4-PW | SBID-MX265-V4-PW | SBID-MX275-V4-PW | SBID-MX286-V4-PW  
SBID-MX255-V3 / V3N | SBID-MX265-V3 / V3N | SBID-MX275-V3 / V3N | SBID-MX286-V3 / V3N  
SBID-MX255-V3-PW / V3N-PW | SBID-MX265-V3-PW / V3N-PW | SBID-MX275-V3-PW / V3N-PW | SBID-MX286-V3-PW / V3N-PW  
SBID-MX055-V3 / V3N | SBID-MX065-V3 / V3N | SBID-MX075-V3 / V3N | SBID-MX086-V3 / V3N  
SBID-MX055-V3-PW / V3N-PW | SBID-MX065-V3-PW / V3N-PW | SBID-MX075-V3-PW / V3N-PW | SBID-MX086-V3-PW / V3N-PW  
SBID-MX255-V2-C | SBID-MX265-V2-C | SBID-MX275-V2-C | SBID-MX286-V2-C  
SBID-MX255-V2-CPW | SBID-MX265-V2-CPW | SBID-MX275-V2-CPW | SBID-MX286-V2-CPW  
SBID-MX255-V2 | SBID-MX265-V2 | SBID-MX275-V2 | SBID-MX286-V2  
SBID-MX255-V2-PW | SBID-MX265-V2-PW | SBID-MX275-V2-PW | SBID-MX286-V2-PW  
SBID-MX365 | SBID-MX375 | SBID-MX386 | SBID-MX265 | SBID-MX275 | SBID-MX286  
IDX55-4 | IDX65-4 | IDX75-4 | IDX86-4 | IDX55-3 | IDX65-3 | IDX75-3 | IDX86-3 | IDX55-2 | IDX65-2 | IDX75-2 | IDX86-2



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## Learn more

This guide and other resources for SMART Board MX and MX Pro series interactive displays are available in the Support section of the SMART website ([smarttech.com/support](http://smarttech.com/support)). Scan this QR code to view these resources on your mobile device.



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As shipped, your display delivers ENERGY STAR performance and savings. However, changing some settings may increase energy consumption beyond the limits required for ENERGY STAR certification. For example, increased brightness and contrast will increase power consumption.

Please consider the environment when you choose non-ENERGY STAR settings.

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[www.smarttech.com/patents](http://www.smarttech.com/patents)

June 15, 2022

# Important information

## Important

There are critical software updates for the display that you need to install to ensure the display is fully functional and provides the best experience. Connect the display to a wired or wireless network with Internet access to automatically download and apply these updates as well as future updates.

## Warning

- Failure to follow the installation instructions included with the display could result in injury and product damage which may not be covered by the warranty.
- Do not open or disassemble the display. You risk electrical shock from the high voltage inside the casing. Opening the casing also voids the warranty.
- Do not stand (or allow children to stand) on a chair to touch the surface of the display. Rather, mount the product at the appropriate height.
- To reduce the risk of fire or electric shock, do not expose the display to rain or moisture.
- If the display requires replacement parts, make sure the service technician uses replacement parts specified by SMART Technologies or parts with the same characteristics as the original.
- Ensure that any cables that cross the floor to the display are properly bundled and marked to avoid a trip hazard.
- Do not insert objects inside the cabinet ventilation holes, because they could touch dangerous voltage points and cause electric shock, fire or product damage which may not be covered by the warranty.
- Do not place heavy objects on the power cable. Damage to the cable could cause shock, fire or product damage which may not be covered by the warranty.
- Use only extension cords and outlets that can fully accommodate the display's polarized plug.
- Use the power cable provided with the display. If a power cable is not supplied, contact your supplier. Use only power cables that match the AC voltage of the power outlet and that comply with your country's safety standards.
- If the glass is broken, do not touch the liquid crystal. To prevent injury, handle glass fragments with care when disposing of them.

## Important information

- Do not move or mount the display by connecting rope or wire to its handles. The display is heavy, and failure of the rope, wire or handle could lead to injury.
- Use only VESA®-approved mounts if using a mount other than the one supplied with the display..
- Disconnect all of the display's power cables from the wall outlet and seek assistance from qualified service personnel if any of the following occur:
  - The power cable or plug is damaged
  - Liquid is spilled into the display
  - Objects fall into the display
  - The display is dropped
  - Structural damage, such as cracking, occurs
  - The display behaves unexpectedly when you follow operating instructions
- Before inserting or removing an OPS from the display, turn off the display using the switch at the back of the display. See [Open Pluggable Slot computer \(OPS\) disclaimer](#) for more information.

### **Caution**

- Turn off the display before cleaning its screen. Otherwise, you may scramble the desktop icons or inadvertently activate applications when you wipe the screen.
- Avoid setting up and using the display in an area with excessive levels of dust, humidity, and smoke.
- Make sure an electrical socket is near the display and remains easily accessible during use.
- The display should be used only with European TN and TT power distribution systems.

It is not suitable for older, IT-type power distribution systems found in some European countries. This system (IT-type) is widely used isolated from earth, in some installations in France, with impedance to earth, at 230/400V, and in Norway, with voltage limiter, neutral not distributed, at 230V line-to-line.

Contact qualified personnel if you're uncertain of the type of power system available where you're installing the display.

- The SMART Board MX, MX (V2), MX (V2-C), and MX (V3) series accessory slot's maximum available power is 60 W. The slot is not a limited power source. To reduce the risk of fire, make sure that accessories connecting to the slot satisfy the fire enclosure requirements of IEC 62368-1.

The SMART Board MX (V4) series accessory slot's maximum available power is 100 W. The slot is not a limited power source. To reduce the risk of fire, make sure that accessories connecting to the slot satisfy the fire enclosure requirements of IEC 62368-1.

## Important information

- You must connect the USB cable that came with the display to a computer that has a USB compliant interface and that bears the USB logo. In addition, the USB source computer must be compliant with IEC 62368-1. The source computer must be CE marked and carry safety certification marks for Canada and USA. This is for operating safety and to avoid damage to the display.

**Important information**

**!** Important

**Important information**

- The following are the normal operating power requirements for the display, including speakers:

Model	Power requirements
SBID-MX255-V4 / SBID-MX255-V4-PW / SBID-MX255-V3 / SBID-MX255-V3-PW / SBID-MX055-V3 / SBID-MX055-V3-PW / SBID-MX255-V3N / SBID-MX255-V3N-PW / SBID-MX055-V3N / SBID-MX055-V3N-PW	100V to 240V AC, 50 Hz to 60 Hz, 90 W
SBID-MX265-V4 / SBID-MX265-V4-PW / SBID-MX265-V3 / SBID-MX265-V3-PW / SBID-MX065-V3 / SBID-MX065-V3- / SBID-MX265-V3N / SBID-MX265-V3N-PW / SBID-MX065-V3N / SBID-MX065-V3N-PW	100V to 240V AC, 50 Hz to 60 Hz, 120 W
SBID-MX275-V4 / SBID-MX275-V4-PW / SBID-MX275-V3 / SBID-MX275-V3-PW / SBID-MX075-V3 / SBID-MX075-V3-PW / SBID-MX275-V3N / SBID-MX275-V3N-PW / SBID-MX075-V3N / SBID-MX075-V3N-PW	100V to 240V AC, 50 Hz to 60 Hz, 150 W
SBID-MX286-V4 / SBID-MX286-V4-PW / SBID-MX286-V3 / SBID-MX286-V3-PW / SBID-MX086-V3 / SBID-MX086-V3-PW / SBID-MX286-V3N / SBID-MX286-V3N-PW / SBID-MX086-V3N / SBID-MX086-V3N-PW	100V to 240V AC, 50 Hz to 60 Hz, 150 W
SBID-MX255-V2-C / SBID-MX255-V2	100V to 240V AC, 50 Hz to 60 Hz, 98 W
SBID-MX265-V2-C	100V to 240V AC, 50 Hz to 60 Hz, 119 W
SBID-MX265-V2	100V to 240V AC, 50 Hz to 60 Hz, 103 W
SBID-MX275-V2-C / SBID-MX275-V2	100V to 240V AC, 50 Hz to 60 Hz, 151 W
SBID-MX286-V2-C / SBID-MX286-V2	100V to 240V AC, 50 Hz to 60 Hz, 167 W
SBID-MX365	100V to 240V AC, 50 Hz to 60 Hz, 115 W max
SBID-MX375	100V to 240V AC, 50 Hz to 60 Hz, 253 W max
SBID-MX386	100V to 240V AC, 50 Hz to 60 Hz, 265 W max

**Important information**

<b>Model</b>	<b>Power requirements</b>
SBID-MX265	100V to 240V AC, 50 Hz to 60 Hz, 106 W max
SBID-MX275	100V to 240V AC, 50 Hz to 60 Hz, 244 W max
SBID-MX286	100V to 240V AC, 50 Hz to 60 Hz, 256 W max

- For additional requirements and other information, refer to the display’s specifications (see *More information* on page 17).



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This chapter introduces the SMART Board® MX and MX Pro series interactive displays.

## About this guide

This guide explains how to install a SMART Board MX or MX Pro series interactive display. It includes the following information:

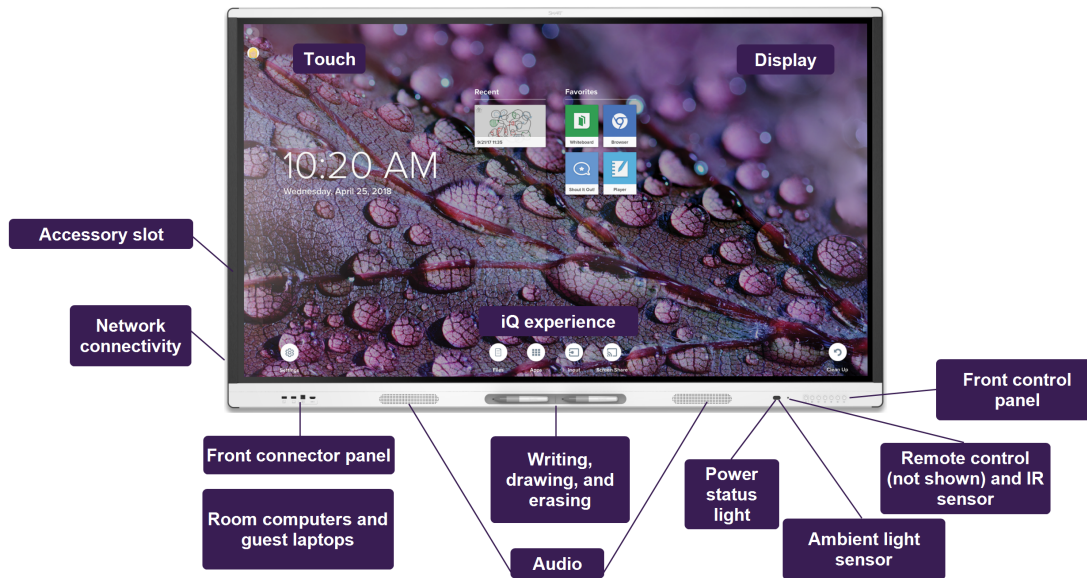
- How to install the display
- How to connect power and devices
- How to turn on the display for the first time

This guide is intended for those who install and maintain displays in their organizations. Other documentation and resources are available for those who use displays (see *More information* on page 17).

## About the display

The SMART Board® MX or MX Pro series interactive display with iQ is the hub of your classroom.

The display includes an extensive set of features and components:



### Touch

You can do everything on the display that you can do at your computer—open and close applications, meet with others, create new documents or edit existing ones, visit websites, play and manipulate videos, and so on—by touching the display's surface.

You can use an array of gestures within applications, including panning, scaling, rotating, and zooming in and out.

### Writing, drawing, and erasing

The display comes with two pens, which you can use to write or draw on the screen.

Use your fist or palm to erase digital ink on the screen.

With Object Awareness™, the display responds automatically to the tool or object you're using, whether it's a pen, finger, or palm. The display's Simultaneous Tool Differentiation technologies allow two people to write independently and simultaneously.

## iQ experience

The display's iQ experience provides one-touch access to collaborative tools, including a whiteboard, wireless screen sharing, and a web browser. With minimal network integration, there's no need for wires, cables, or manual software and firmware updates.

From the iQ experience Home screen, you can open the iQ apps, switch inputs, and adjust settings.

## Display

The 4K ultra-high-definition LCD display provides optimal image clarity and wide viewing angles.

The size of the display varies by model:

Models	Size (diagonal)
SBID-MX255-V4 / SBID-MX255-V4-PW / SBID-MX255-V3 / SBID-MX255-V3-PW / P WSBID-MX255-V3N / SBID-MX255-V2-C / SBID-MX255-V2-CPW / SBID-MX255-V2 / SBID-MX255-V2-PW	55"
SBID-MX265-V4 / SBID-MX265-V4-PW / SBID-MX265-V3 / SBID-MX265-V3-PW / SBID-MX265-V3N / SBID-MX265-V2-C / SBID-MX265-V2-CPW / SBID-MX265-V2 / SBID-MX265-V2-PW / SBID-MX365 / SBID-MX265	65"
SBID-MX275-V4 / SBID-MX275-V4-PW / SBID-MX275-V3 / SBID-MX275-V3-PW / SBID-MX275-V3N / SBID-MX275-V2-C / SBID-MX275-V2-CPW / SBID-MX275-V2 / SBID-MX275-V2-PW / SBID-MX375 / SBID-MX275	75"
SBID-MX286-V4 / SBID-MX286-V4-PW / SBID-MX286-V3 / SBID-MX286-V3-PW / SBID-MX286-V3N / SBID-MX286-V2-C / SBID-MX286-V2-CPW / SBID-MX286-V2 / SBID-MX286-V2-PW / SBID-MX386 / SBID-MX286	86"

## Audio

The display includes two integrated speakers, which are designed to provide sound at the front of a room.

### Tip

You might want to connect an external audio system if you're providing sound in a larger space (see *Connecting an external audio system* on page 45).

## Network connectivity

The display requires a network connection for downloading software and firmware updates, and a number of the iQ apps require a network connection as well.

You can connect to a network using Wi-Fi or the RJ45 LAN jack on the display:

- Wi-Fi supports both 2.4 and 5 GHz bands.
- The two RJ45 jacks allow you to connect the display and an external device, such as a computer, to a Ethernet network.

For more information, see *Connecting to a network* on page 27.

## Room computers and guest laptops

You can connect room computers and guest laptops and use the display to view and interact with them.

The display comes with SMART software that you can install on connected computers to take full advantage of the display's features while using the connected computers.

For more information, see *Chapter 3 Connecting computers and other devices* on page 33.

## Accessory slot

The iQ appliance is inserted in the accessory slot on the back of the following models:

- SBID-MX365
- SBID-MX375
- SBID-MX386
- SBID-MX265
- SBID-MX275
- SBID-MX286

### Note

With the SBID-MX365, SBID-MX375, and SBID-MX386 models, you can insert an Intel Compute Card in the appliance to provide a complete Windows 10 solution at your fingertips, without the need for an external PC or cables.

For other models, you can install an OPS-compatible device, such as a SMART OPS PC module, in the accessory slot. SMART OPS PC modules provide a complete Windows® 10 Pro installation.

For more information on SMART OPS PC modules, see *SMART OPS PC module* on page 16.

 **Caution**

The SMART Board MX, MX (V2), MX (V2-C), and MX (V3) series accessory slot's maximum available power is 60 W. The slot is not a limited power source. To reduce the risk of fire, make sure that accessories connecting to the slot satisfy the fire enclosure requirements of IEC 62368-1.

The SMART Board MX (V4) series accessory slot's maximum available power is 100 W. The slot is not a limited power source. To reduce the risk of fire, make sure that accessories connecting to the slot satisfy the fire enclosure requirements of IEC 62368-1.

## Front control panel

The front control panel contains buttons for turning the display on and off, controlling the volume, freezing and unfreezing the screen, and showing and hiding a screen shade.

For more information about the front control panel, see the *SMART Board MX and MX Pro series interactive displays user guide* ([smarttech.com/kb/171554](http://smarttech.com/kb/171554)).

## Front connector panel

The front connector panel includes connectors for USB peripherals and a computer or other input source.

## Ambient light sensor

The ambient light sensor is located in the bottom-right corner of the display's frame.

The ambient light sensor detects the brightness of the room and adjusts the screen's brightness accordingly.

You can enable or disable this feature (see [default.htm](#)).

## Power status light

The power status is located in the bottom-right corner of the display's frame.

The power status light indicates the display's status.

Power status light	Display status
Red	Standby mode
Green	Normal operating mode

## Remote control and IR sensor

You can use the remote control to turn the display on and off, adjust display settings, and so on.

The IR sensor for the remote control is located in the bottom-right corner of the display's frame.

For more information about the remote control, see the *SMART Board MX and MX Pro series interactive displays user guide* ([smarttech.com/kb/171554](http://smarttech.com/kb/171554)).

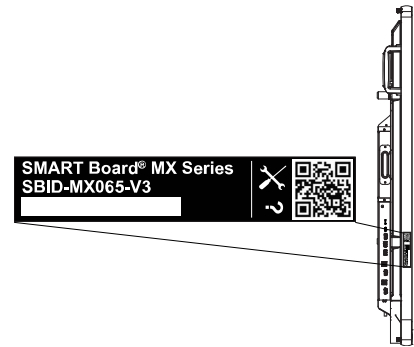
## Identifying your specific model

There are several series of SMART Board MX and MX Pro series interactive displays:

<b>SMART Board MX (V4) series</b>	<b>SMART Board MX (V3) series</b>	<b>SMART Board MX (V2-C) series</b>	<b>SMART Board MX (V2) series</b>	<b>SMART MX series</b>
SBID-MX255-V4	SBID-MX255-V3	SBID-MX255-V2-C	SBID-MX255-V2	SBID-MX365
SBID-MX265-V4	SBID-MX265-V3	SBID-MX265-V2-C	SBID-MX265-V2	SBID-MX375
SBID-MX275-V4	SBID-MX275-V3	SBID-MX275-V2-C	SBID-MX275-V2	SBID-MX386
SBID-MX286-V4	SBID-MX286-V3	SBID-MX286-V2-C	SBID-MX286-V2	SBID-MX265
SBID-MX255-V4-PW	SBID-MX255-V3-PW	SBID-MX255-V2-CPW	SBID-MX255-V2-PW	SBID-MX275
SBID-MX265-V4-PW	SBID-MX265-V3-PW	SBID-MX265-V2-CPW	SBID-MX265-V2-PW	SBID-MX286
SBID-MX275-V4-PW	SBID-MX275-V3-PW	SBID-MX275-V2-CPW	SBID-MX275-V2-PW	
SBID-MX286-V4-PW	SBID-MX286-V3-PW	SBID-MX286-V2-CPW	SBID-MX286-V2-PW	
	SBID-MX255-V3N			
	SBID-MX265-V3N			
	SBID-MX275-V3N			
	SBID-MX286-V3N			
	SBID-MX255-V3N-PW			
	SBID-MX265-V3N-PW			
	SBID-MX275-V3N-PW			
	SBID-MX286-V3N-PW			

### Tip

For help identifying your SMART Board MX (V2, V2-C, V3, or V4) series model, see the label on the left side of the display.



## Accessories

Accessories for the display include:

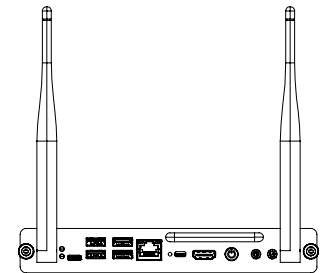
- SMART OPS PC module
- Stands
- USB extenders

### Note

For more information about these and other accessories, see [smarttech.com/accessories](http://smarttech.com/accessories).

## SMART OPS PC module

SMART Open Pluggable Specification (OPS) PC modules provide a hassle-free Windows Pro installation based on Intel® Core™ processors and are designed specifically to work with a SMART display. All OPS PC modules are WHQL certified and fully licensed with Windows Pro. Install the OPS PC module in a display's accessory slot to provide a complete 4K UHD Windows installation at your fingertips, without the need for an external PC or additional cables.



Install familiar Windows applications, such as SMART Notebook®, SMART TeamWorks™, and SMART Meeting Pro® software, and access the internet directly through your display's network connection. Upgrades and service for the OPS PC module are easy to perform without removing the display from its mounting.



## Stands

If you want to move the display from place to place, you can install it on a SMART mobile stand. If you are installing the display on a wall that cannot support the display's full weight, you can install the display on a SMART floor stand.

## USB extenders

As noted in the display's specifications, there is a maximum length for USB cable connections between the display and computer.

When using USB 2.0, the cable should be no longer than 16' (5 m).

When using USB 3.0, the cable should be no longer than 9' (3 m).

Use one of the following USB extenders if you need a longer USB connection:

Extender	Specifications
USB-XT	<a href="http://smarttech.com/kb/119318">smarttech.com/kb/119318</a>

### Notes

- To extend touch using the SMART CAT 5 USB extender (CAT5-XT-1100) use a touch USB connector associated with an HDMI 1, HDMI 2, or VGA input. The extender will not function correctly if used to extend touch associated with the HDMI 3 input on the front of the display.
- For more information about extending USB connections, see [USB cable extenders](#).

## More information

In addition to this guide, SMART provides other documents for the display in the Support section of the SMART website ([smarttech.com/support](http://smarttech.com/support)). Scan the QR code on the cover of this guide to view links to SMART Board MX and MX Pro series interactive display documents and other support resources.

# Chapter 2 Installing the display

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SMART recommends that only trained installers install the display.

This chapter is for installers. Installers should read this information along with the installation instructions included with the display before they install the display.

## **Warning**

Improper installation of the display can result in injury and product damage.

## Moving the display to the installation site

After your organization receives the display, you need to move it to the place where you plan to install it.

On occasion, you might also need to move the display to another location after initially installing it.

**!** **Important**

- Move the display at your own risk. SMART cannot accept liability for damages or injury that occur during the display's transportation.
- When moving the display:
  - Follow local safety regulations and standards.
  - Pack the display in its original packaging, including the pallet.
  - Move the display so that its top frame faces up.
  - Have at least two people move the display.

**Tip**

Display packaging may be labeled to indicate which side is the front. Look for "FRONT" on the packaging to help orient the box during transportation.

## Using transportation aides

You can use the following aides to move the display:

- Cart
- Furniture dolly
- Mechanical lift

## Accommodating doorways, hallways, and elevators

In some situations, you might need to remove the display from its packaging to move it through narrow doorways or hallways or onto an elevator. In these situations, keep the foam pieces on the bottom corners of the display. These foam pieces protect the display if you need to set it down during transportation.

You might also need to rotate the display so that its top frame faces to the side. You can do this during transportation, but when you install the display, it must be in landscape orientation (with the top frame facing up).

## Dealing with cracked, chipped, or shattered glass

The display contains safety-tempered glass. Although this glass is heat-strengthened to help withstand impacts, the glass can crack, chip or shatter if struck with enough force. (Safety glass is designed to break into small pieces rather than sharp shards if it is broken.) Temperature changes can cause a minor crack or chip to become worse, possibly causing the glass to shatter. See the knowledge base article, [Shattered glass on an interactive display](#), for information about conditions that can cause the display's glass to shatter even when it's not in use.

If the display's glass is cracked or chipped, have it professionally inspected and repaired at a SMART authorized repair center. If the display's glass shatters, carefully clean up the area and have the display repaired or replaced.

### **Warning**

For safety and to prevent further damage, do not continue to install or use the display if its glass is cracked, chipped or shattered.

## Saving the original packaging

Save the original packaging and repack the display with as much of it as possible if you ever need to move the display after installation. This packaging was designed to provide the best possible protection against shock and vibration.

### **Note**

If the original packaging isn't available, you can purchase the same packaging directly from your authorized SMART reseller ([smarttech.com/where](http://smarttech.com/where)).

### **Caution**

Move the display only in the original packaging or replacement packaging purchased from your authorized SMART reseller. Moving the display without correct packaging can lead to product damage and voids the warranty.

## Installing the display on a wall

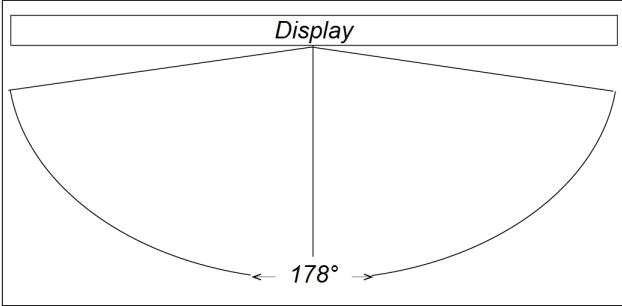
Typically, you install the display on a wall in a classroom or meeting space.

## Choosing a location

A display is typically installed at the room's focal point, such as at the front of a classroom or meeting space.

Selecting an appropriate location for the display is crucial for ensuring the best possible experience with the product. Consider the following factors as you choose a location:

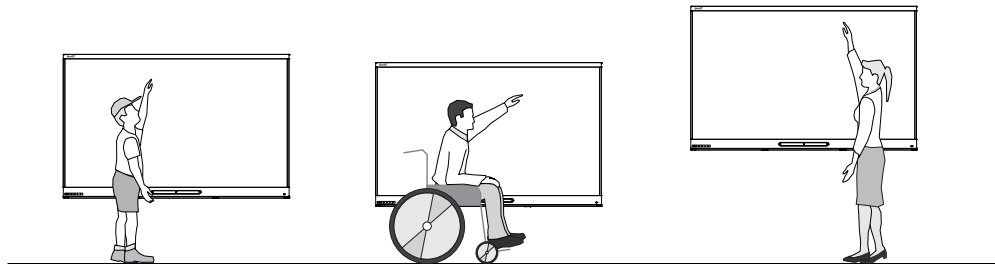
Factor	Considerations
Room setup	<ul style="list-style-type: none"> <li>• The location allows users, including those in wheelchairs, access to the display. Refer to local regulations regarding accessibility.</li> <li>• The location allows for multiple users to access the display at the same time.</li> <li>• The location accommodates room traffic patterns, and there are no tripping hazards.</li> <li>• The display is not installed where it could be hit by a door or gate.</li> <li>• There are no nearby heat sources directed at the display, such as a radiator or heat vent.</li> <li>• There are no nearby shelving units, desks, or other furniture that has doors or drawers that could hit the display.</li> <li>• Furniture, wall décor, and other room features, such as light switches and thermostats, do not block the display and are not blocked by it. (You might be able to move some of these room features to accommodate the display.)</li> </ul>
Power and other connections	<ul style="list-style-type: none"> <li>• The location is close to:               <ul style="list-style-type: none"> <li>◦ A power outlet</li> <li>◦ A network outlet (if you plan to use a wired network connection)</li> <li>◦ A room computer (if you plan to connect a room computer)</li> <li>◦ External audio systems and other devices that you want to connect to the display</li> </ul> </li> </ul> <p><b>Notes</b></p> <ul style="list-style-type: none"> <li>◦ If the location is not near a power outlet, consult an electrician for the power setup you need.</li> <li>◦ Determine if you'll need additional equipment, such as power bars, additional cables, or cable extenders.</li> </ul> <ul style="list-style-type: none"> <li>• The location is not where the mains power supply enters the building.</li> </ul>

Factor	Considerations
Visibility	<p>The display's screen is clearly visible to all users in the room. SMART recommends users sit within a 178° viewing area:</p>  <p><b>Note</b></p> <p>The viewing area depends on the display's resolution and a variety of other factors. For more information, see the knowledge base article, <a href="#">Recommended viewing distances and viewing angles for SMART Board interactive displays</a>.</p>
Lighting	<p>The location is not near bright light sources, such as windows or strong overhead lighting.</p> <p>Risks of light interference include:</p> <ul style="list-style-type: none"> <li>◦ <b>Reduced visibility:</b> Light sources can cause glare on the display's screen, reducing its visibility.</li> <li>◦ <b>Touch system interference:</b> Many displays use infrared (IR) light as a key component of the touch system. Strong light that hits the display's screen directly can cause interference with the touch system and prevent the display from working properly.</li> </ul> <p><b>Tip</b></p> <p>To reduce light interference, install blinds or shades on windows or skylights and install switches to dim or turn off any lights shining directly on the display's screen. Keep in mind that sunlight can come through windows at different angles at different times of the year.</p>
Acoustics	<p>The room has good acoustics (see <a href="#">Configuring your SMART Board MX or MX Pro for the best audio performance</a>).</p>

Factor	Considerations
Environment and ventilation	<ul style="list-style-type: none"> <li>• The location meets the environmental requirements in the display's specifications (see <i>More information</i> on page 17).</li> <li>• The display isn't subjected to strong vibrations or dust.</li> <li>• Ventilation systems don't blow air directly on the display.</li> <li>• There is adequate ventilation or air conditioning around the display so that heat can flow away from it and the mounting equipment. SMART recommends at least 2" (5 cm) of space on all sides of the display for proper airflow.</li> <li>• If you plan to install the display in a recessed area, there is at least 4" (10 cm) of space between the display and the recessed walls to enable ventilation and cooling.</li> </ul>

## Choosing a height

Consider the general height of the user community when you choose the height for the display.



SMART recommends that you mount the display so that its top is 6' 5" (1.9 m) from the floor.

### Note

If participants will be sitting at a steep angle (such as in a lecture hall), you may have to adjust the installation height or angle.

## Assessing the wall

Be sure the wall you're installing the display on can support the weight of the display and mounting equipment. If it can't, consider using a SMART wall stand to transfer some of the weight from the wall to the floor (see [smarttech.com/accessories](http://smarttech.com/accessories)).

### Note

Refer to the display's specifications for its weight (see *More information* on page 17).

In some situations, you may need to request an engineering analysis to determine if the wall can support the display.

## Selecting mounting hardware

The mounting hardware required for installation varies according to the type of wall onto which the display is being mounted.

If you're using the SMART wall mount (WM-SBID-200), see the wall mount's illustrated installation instructions for information about the required mounting hardware ([smarttech.com/kb/171373](http://smarttech.com/kb/171373)).

## Selecting a wall mount

It is always best to mount the display on a wall. If the wall can't support the display's weight, you can use additional hardware to transfer some of the weight to the floor.

The display includes a pre-attached wall bracket which can be used to mount the display to the wall.

See

- *SBID-MX255-V2, SBID-MX265-V2, MX275-V2 and MX286-V2 installation instructions* ([smarttech.com/kb/171547](http://smarttech.com/kb/171547))
- *SBID-MX255-V3, SBID-MX265-V3, MX275-V3 and MX286-V3 installation instructions* ([smarttech.com/kb/171785](http://smarttech.com/kb/171785)).
- *SBID-MX255-V4, SBID-MX265-V4, MX275-V4 and MX286-V4 installation instructions* ([smarttech.com/kb/171835](http://smarttech.com/kb/171835)).

Contact your authorized SMART reseller ([smarttech.com/where](http://smarttech.com/where)) for information on SMART's mounting options.

If you choose a third-party option rather than one of SMART's mounting options, be sure the wall mount can accommodate the display's dimensions and support the display's weight as well as the weight of any attached accessories.

## Mounting the display

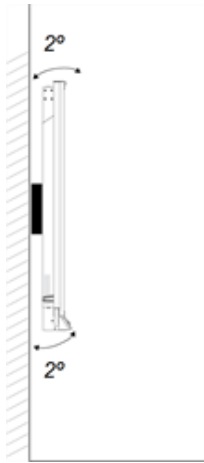
Mount the display following the included installation instructions. In addition, consider the following:

The electrical and mechanical components of a display are designed to work properly when the display is mounted in the orientation described in its installation instructions. Mounting the display in a different orientation can cause malfunctions and will void the display's warranty.



There are a number of potential hazards of mounting a display in a non-standard orientation or angle:

- Mounting a display horizontally (like a table top) can cause the glass to sag, damaging the display or interfering with the display's touch system.
- Non-standard orientation can affect ventilation, creating hotspots in equipment, premature failures and, in displays that use projectors, exploding projector bulbs.
- Mount the display vertically ( $90^\circ$  relative to the floor plus or minus  $2^\circ$  for tolerance) and in landscape orientation. SMART doesn't support mounting the display at other angles or in portrait orientation.



- Use the included wall mount. Optionally, use a VESA-approved mounting plate that is rated for the display's weight and size.

- If you're not using the included bolts to fasten the wall mount to the display, see the following table.

Display	Bolt type	Minimum length	Maximum length
<b>SMART Board MX (V2, V2-C, V3, and V4) series</b>			
55" models	M8	14 mm + x mm	20 mm + x mm
65" models	M8	14 mm + x mm	18 mm + x mm
75" models	M8	18 mm + x mm	30 mm + x mm
86" models	M8	14 mm + x mm	30 mm + x mm
<b>SMART Board MX series</b>			
65" models (Part No. 1031028)	M6	14 mm + x mm	18 mm + x mm
65" models (Part No. 1033445)	M8	14 mm + x mm	18 mm + x mm
75" models	M8	18 mm + x mm	30 mm + x mm
86" models	M8	14 mm + x mm	30 mm + x mm

where x is the combined thickness of the wall mount and washer



- Fasten force: 97.36–177.01 in.-lb. (11–20 N·m)



**Caution**

Do not over-tighten the bolts.

## Installing the display on a stand

If you want to move the display from place to place or if it's not possible to install the display on a wall, you can install it on a stand.

### Using SMART mobile stands

SMART mobile stands are designed for SMART interactive displays. They are height-adjustable. Some models include integrated speakers, a locking cabinet to secure equipment, and casters that swivel and lock for easy movement.

For more information about SMART mobile stands, see [smarttech.com/accessories](http://smarttech.com/accessories).

### Using a third-party stand

For information on selecting and using a third-party stand, see [Installing your SMART Board MX or MX Pro on a stand](#).

# Installing the iQ appliance and Intel Compute Card

## For SMART Board MX series displays



For more information about installing the iQ appliance in SMART Board MX series displays, see the *SMART Board MX series interactive display installation instructions* ([smarttech.com/kb/171274](https://smarttech.com/kb/171274)).

### **Caution**

Install the AM50 iQ appliance and Intel Compute Card before you turn on the display for the first time.

### **Important**

If you're installing an AM50 iQ appliance in a display, make sure the display's firmware is updated to 1.8.7 or later. The display may not function properly if the display's firmware is not updated. See [Updating firmware for your SMART Board MX](#).

## Connecting the Intel Compute Card

With the SBID-MX365, SBID-MX375, and SBID-MX386 models, you can insert an Intel Compute Card in the slot on the AM50 iQ appliance to access the card's Windows 10 operating system from the display.

### **Important**

Make sure the Intel Compute Card is inserted before you turn on the display.

### **Note**

By default, the HDMI output extends the Windows desktop, and this can cause display problems in certain configurations. If you experience issues, set the HDMI out to a mirrored desktop rather than the default extended desktop. Right click, select Display settings, and set the secondary display to mirror the first.

### **Tip**

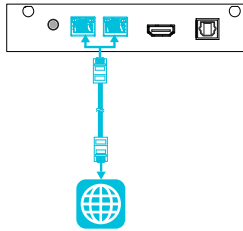
You can connect peripherals, such as a keyboard or mouse, to the Intel Compute Card using the USB receptacles on the iQ appliance.

## Connecting to a network

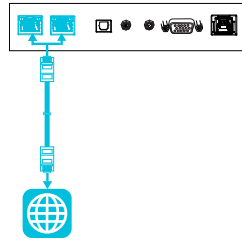
Before connecting the display, your organization's network administrators need to configure the network to allow users to update the display's firmware automatically and use all the features of the iQ experience. See [Configuring your organization's network for a SMART display with the iQ experience](#).

The display requires a network and internet connection for downloading software and firmware updates, and a number of the iQ apps require a network connection as well. You can connect to a network using Wi-Fi or one of the RJ45 jacks.

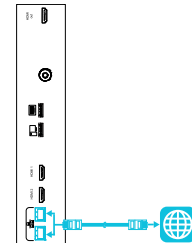
**SMART Board MX (V3) series**



**SMART Board MX (V2 and V2-C) series**



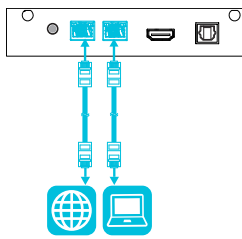
**SMART Board MX series**



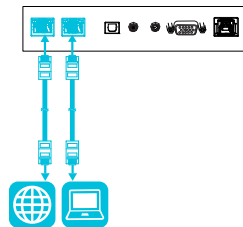
**Tip**

If you're using one of the display's RJ45 jacks to connect to a network, you can connect a computer to the other RJ45 jack to provide network access for the computer (pictured). This is particularly useful if there is only one wired network connection in the room. (Network access is available when Networked Standby is enabled in Settings but not when Standby is enabled in Settings.)

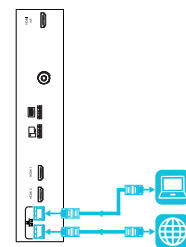
**SMART Board MX (V3) series**



**SMART Board MX (V2 and V2-C) series**



**SMART Board MX series**



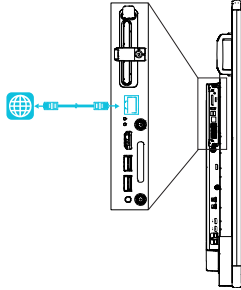
## AM50 iQ appliance

**For SMART Board MX series displays**

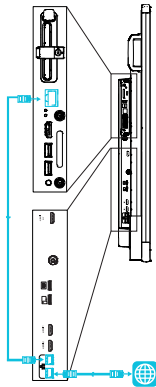


There are three ways to connect the AM50 appliance included with the SBID-MX365, SBID-MX375, and SBID-MX386 models to a network:

- Wi-Fi
- connect an Ethernet cable from a network outlet directly to the AM50 appliance's RJ45 jack



- connect an Ethernet cable from a network outlet to the display's RJ45 IN jack, and then connect another Ethernet cable from the display's RJ45 OUT jack to the AM50 appliance's RJ45 jack



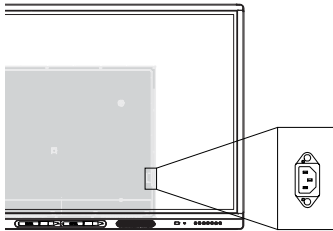
## Connecting power and turning on the display for the first time

The final step in installing and configuring the display is to connect power and turn it on. When you first turn on the display, a setup wizard appears. Follow the steps in the wizard to complete the setup.

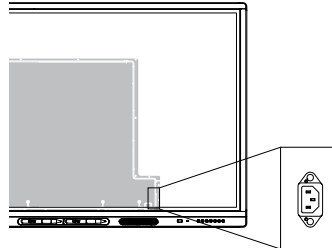
### To connect the display to power

Connect the supplied power cable from the AC power inlet on the back of the display to a power outlet.

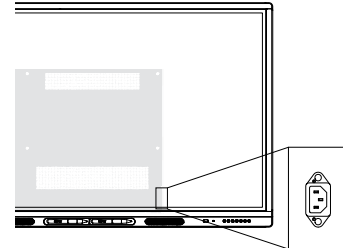
**55" and 65" models**



**75" models**



**86" models**



#### Note

Refer to the display's specifications for power requirements and power consumption information (see *More information* on page 17).

### To turn on and set up the display for the first time

#### ⚠ Important

Install the OPS PC module before you turn the display on.

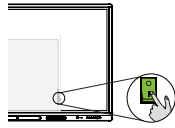
#### Notes

- Touch is not available right after waking up the display or turning it on. Wait a few seconds and then the display will respond to touch.
- If a USB drive is connected to the display's service port, do not remove the USB drive. The USB drive contains an important firmware update.

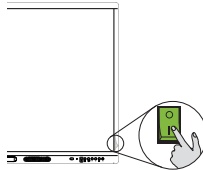
1. Flick the switch beside the AC power inlet to the ON (I) position.

- SMART Board MX (V2, V2-C, V3, V4) series

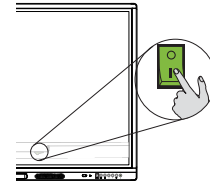
55" models



65" models

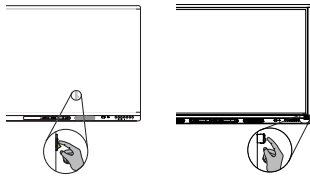


75" and 86" models

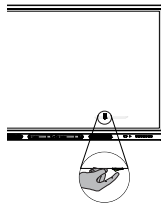


- SMART Board MX series

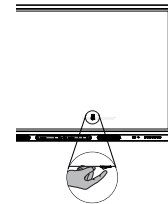
65" models




75" models



86" models



2. Press the **Power** button  on the front control panel or remote control
3. Select your preferred language, and then tap **Next**.
4. Select your country, and then tap **Next**.
5. Select your time zone, and then tap **Next**.
6. Set the date, and then tap **Next**.
7. Set the time, and then tap **Next**.
8. Name the display, and then tap **Next**.
9. If the display isn't using a wired network connection, select a wireless network, and then tap **Next**.

 **Important**

The display needs an internet connection for downloading and installing important updates. Ask the network administrator to confirm that the network has been correctly configured for the iQ experience.

10. Select the apps you want to appear in the Apps Library, and then tap **Next**.

11. Tap **Finish**.



The *Welcome* screen appears.

OR

The display downloads and applies updates for the firmware and system software.

## About energy saving modes

The display features a number of energy saving modes:

- Networked standby: a low power state in which the display quickly turns on when the Power button  is pressed.
- Standby: a very low power state in which the display turns on when the Power button  is pressed.

Standby is the default energy saving mode for displays set to a location within the EU. Elsewhere, networked standby is the default energy saving mode. You can select the display's energy saving mode in **Settings > System Settings > Power > Standby (Shutdown)** or **Settings > System Settings > Power > Networked Standby (Sleep)**.



# Chapter 3 Connecting computers and other devices

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 **Warning**

Ensure that any cables that cross the floor to the display are properly bundled and marked to avoid a trip hazard.

## Installing SMART software

The display comes with the following software, which you can install on connected computers:

Software	Description	Notes
SMART Notebook basic version	Free software designed for use with a SMART Board interactive display. The basic version of SMART Notebook software comes with many features that you can use to create, edit, and deliver engaging lessons for your students.	See <a href="#">Find out more about the basic version of SMART Notebook</a> .
SMART Meeting Pro	Software that enables you to capture ideas in a virtually unlimited interactive workspace.	Pro models only.
SMART Product Drivers	Software that enables the computer to detect input from the display.	Included with SMART Notebook basic and SMART Meeting Pro software
SMART Ink	Software that enables you to write and draw in digital ink over applications, files, folders, websites, and any other open window.	Included with SMART Notebook basic and SMART Meeting Pro software
SMART Remote Management	Cloud-based mobile device management software for remotely maintaining, supporting, controlling, and securing the display and your other devices.	Subscription for length of the included warranty <sup>1</sup>

### Tip

You can purchase additional licenses or subscriptions to SMART software to install on other computers.

The following software is also available but sold separately:

Software	Description	Licensing details
SMART Learning Suite	A suite of desktop and online software that combines lesson delivery, activities, assessments, and collaborative workspaces. Includes SMART Notebook software and Lumio™ by SMART.	Single and group plan subscriptions available. See <a href="http://smarttech.com/lumio/pricing">smarttech.com/lumio/pricing</a> .
SMART TeamWorks Room	Software that simplifies meetings and facilitates deeper, more natural interaction with on-site and remote participants.	1-year subscription <sup>2</sup>

<sup>1</sup>Subscription terms may vary in some regions.

<sup>2</sup>Pro models only.

Contact your authorized SMART reseller ([smarttech.com/where](http://smarttech.com/where)) for information about purchasing SMART software.

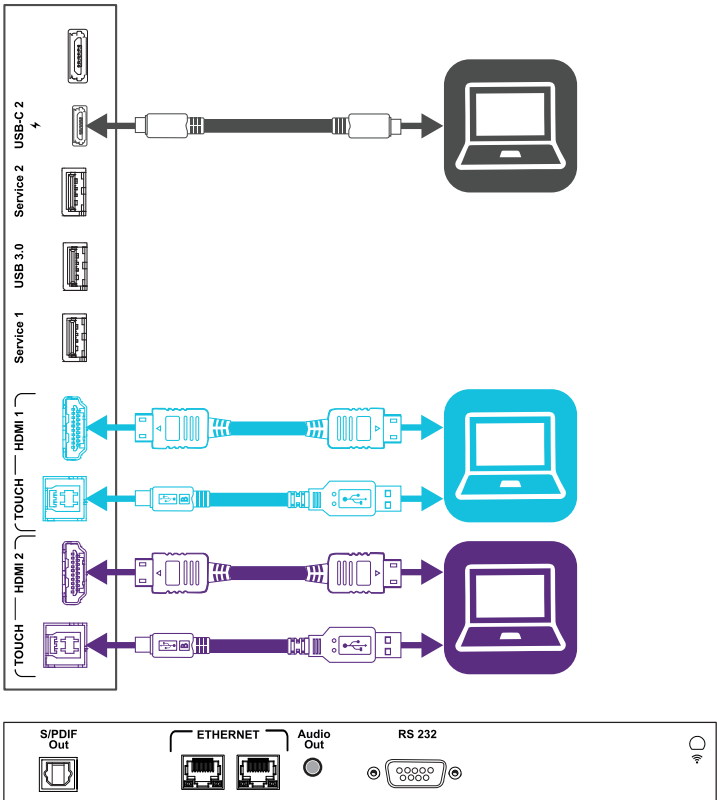
You can download SMART software from [smarttech.com/downloads](http://smarttech.com/downloads) and install it following the instructions in [Installing and maintaining SMART Notebook](#), [Installing SMART TeamWorks](#), or [Installing and maintaining SMART Meeting Pro](#).

## Connecting room computers and guest laptops

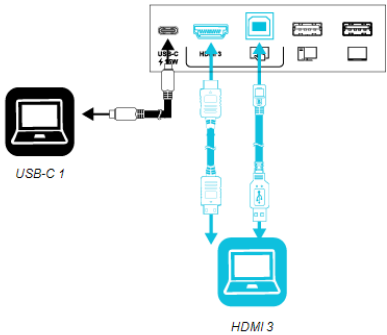
You can connect cables for room computers and guest laptops. By installing cables in advance, you make use of connectors that might not be accessible after the display is wall-mounted. You can then run the cables across floors or behind walls as needed.

<a href="#">SMART Board MX</a>	<a href="#">SMART Board MX</a>	<a href="#">SMART Board MX</a>	<a href="#">SMART Board MX</a>	<a href="#">SMART Board MX</a>
<a href="#">(V4) series</a>	<a href="#">(V3) series</a>	<a href="#">(V2-C) series</a>	<a href="#">(V2) series</a>	<a href="#">series</a>

- SMART Board MX (V4) series  
**Side and bottom connector panels**

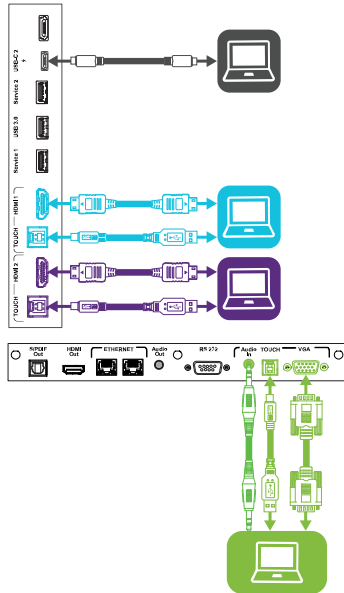


**Front connector panel**

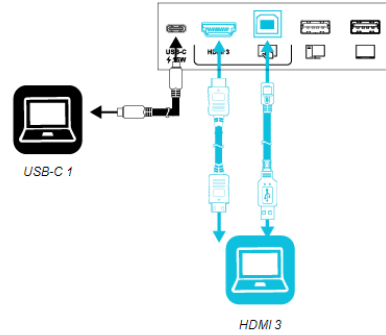


- SMART Board MX (V3) series

**Side and bottom connector panels**

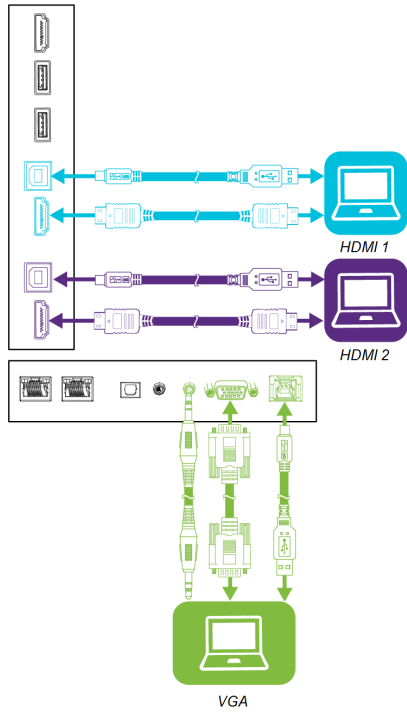


**Front connector panel**

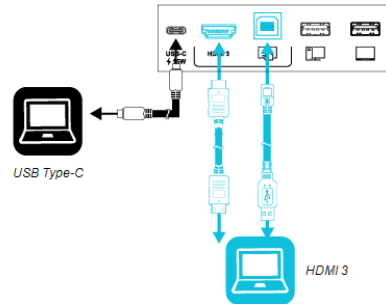


- SMART Board MX (V2-C) series

**Side and bottom connector panels**

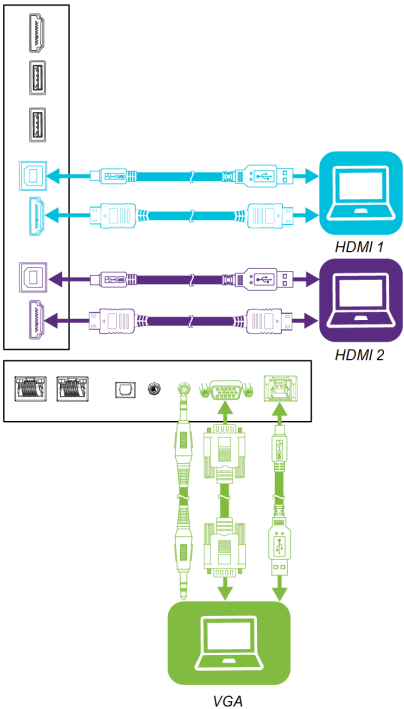


**Front connector panel**

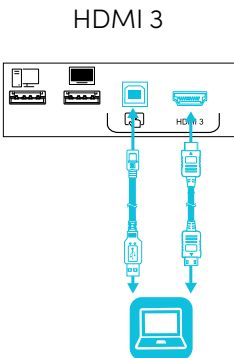


- SMART Board MX (V2) series

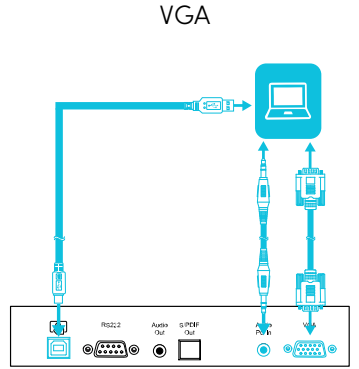
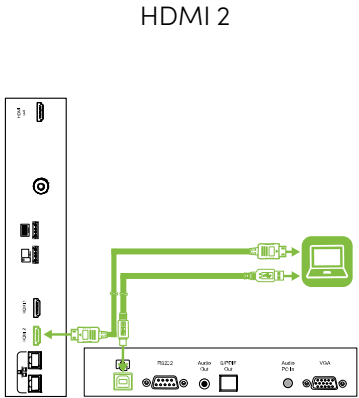
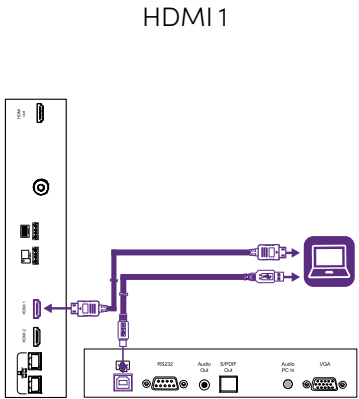
**Side and bottom connector panels**



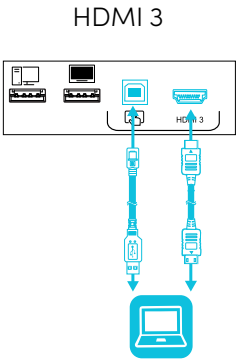
**Front connector panel**



- SMART Board MX series  
**Side and bottom connector panels**



**Front connector panel**



**Notes**






- Install SMART software on any computers you connect to the display (see *Installing SMART software* on page 34).

- You can charge devices connected to the USB Type-C receptacle on the front connector panel of SMART Board MX (V2-C, V3, V4) series interactive displays up to 15 W.
- You can charge devices connected to the USB Type-C receptacle on the side connector panel of SMART Board MX (V3 and V4) series interactive displays up to 65 W (if a module is not installed in the accessory slot) or up to 30 W (if a module is installed in the accessory slot).

## Viewing a connected computer's input

### To view the input of a computer connected to a SMART Board MX (V3, V2 or V2-C) series display

1. Connect the computer to the display.
2. Do one of the following:

If iQ is enabled	If iQ is disabled
Tap <b>Input</b>  on the Home screen. OR Press <b>Input</b>  on the remote control. OR Press <b>Input</b>  on the front control panel.	Press the <b>Home</b> button  or the <b>Input</b> button  on the remote control.

The display shows thumbnails of the devices that are connected to the display's inputs:


#### Note

A thumbnail with **Touch enabled**  indicates a USB cable is connected between the display and device and touch is available.

- A gray thumbnail indicates no device is connected to an input.
  - A black thumbnail indicates a device is connected to an input but is in Standby mode.
  - A thumbnail showing a preview screen indicates an active device is connected to an input.
3. Tap the computer's thumbnail.



**To view the input of a computer connected to a SMART Board MX series display**

1. Connect the computer to the display.
2. Press the **Input**  on the front control panel.

The Input selection menu appears.

**Note**

Inputs with devices connected are blue, and inputs without a connection are black.

3. Tap the computer’s input menu option.

**Setting a connected computer’s resolution and refresh rate**

The following table presents the recommend resolutions and refresh rates for the display’s USB-C, HDMI 1, HDMI 2, and HDMI 3 input sources:

Resolution	Input source aspect ratio	Mode	Refresh rate
3840 × 2160	16:9	UHD / 2160p	59.94 Hz / 60 Hz 50 Hz 29.97 Hz / 30 Hz 25 Hz 23.98 Hz / 24 Hz
1920 × 1080	16:9	FHD / 1080p	59.94 Hz / 60 Hz 50 Hz 29.97 Hz / 30 Hz 25 Hz 23.98 Hz / 24 Hz
1360 × 768	16:9	HD	60.015 Hz
1366 × 768	16:9	HD	60.015 Hz
1280 × 720	16:9	HD / 720p	59.94 Hz / 60 Hz 50 Hz 29.97 Hz / 30 Hz 25 Hz 23.98 Hz / 24 Hz
720 × 480	16:9	480p (DVD Player)	60 Hz

The following table presents the recommend resolutions and refresh rates for the display’s VGA input source:

Resolution	Input source aspect ratio	Mode	Refresh rate
1920 × 1080	16:9	[N/A]	60.000 Hz
1600 × 1200	4:3	[N/A]	60.000 Hz
1360 × 768	16:9	[N/A]	60.015 Hz
1280 × 1024	5:4	SXGA 60	60.020 Hz
1024 × 768	4:3	XGA 60 XGA 70 XGA 75	60.004 Hz 70.069 Hz 75.029 Hz
800 × 600	4:3	SVGA 60 SVGA 72 SVGA 75	60.317 Hz 72.188 Hz 75.000 Hz
640 × 480	4:3	VGA 60	59.940 Hz

If possible, set any connected computers to these resolutions and refresh rates. See the connected computers’ operating system documentation for instructions.

## Connecting USB drives, peripherals, and other devices

You can use USB drives, peripherals, and other devices with a computer connected to the display using the USB receptacles on the display.

For more information, see *Connecting USB drives, peripherals, and other devices* on the next page.

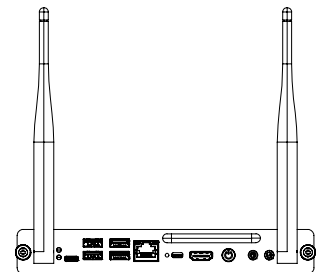
## Troubleshooting connected computers

For troubleshooting information for connected computers, see default.htm.

## Connecting a SMART OPS PC module

If your organization has purchased a SMART OPS PC module, you or your organization’s installers can install the OPS PC module in the display’s accessory slot following the OPS PC module’s installation instructions ([smarttech.com/kb/171544](http://smarttech.com/kb/171544)). You can then view the OPS PC module’s input on the display.

For more information about SMART OPS PC modules, see the *SMART OPS PC modules user guide* ([smarttech.com/kb/171747](http://smarttech.com/kb/171747)).



# Connecting other devices

In addition to computers, you can connect the following devices to the display:

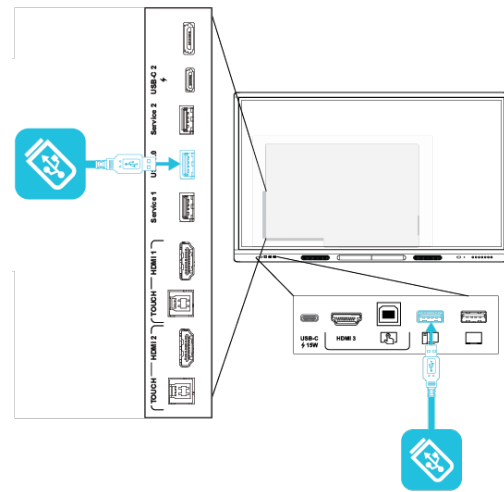
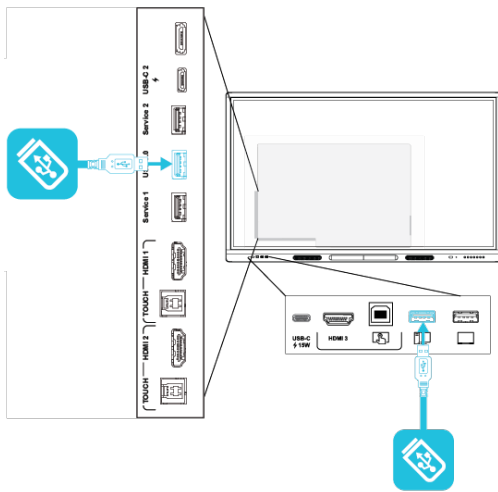
- USB drives, peripherals, and other devices
- External displays
- External audio systems
- Room control systems

## Connecting USB drives, peripherals, and other devices

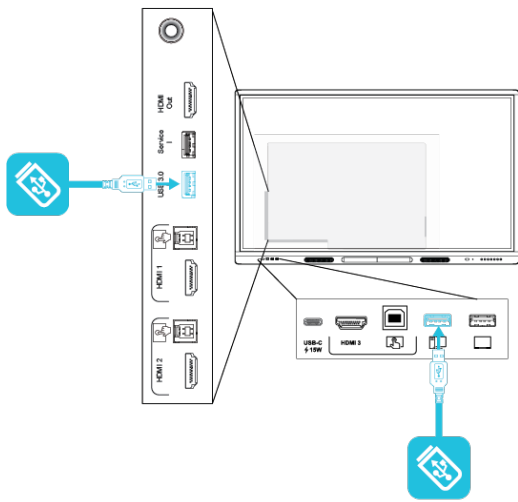
The display includes the following USB Type A receptacles. You can connect USB drives, peripherals (such as keyboards), and other devices to these connectors and use the devices with the iQ experience, connected computers, and devices installed in the accessory slot (such as the SMART OPS PC module).

**SMART Board MX (V4) series**

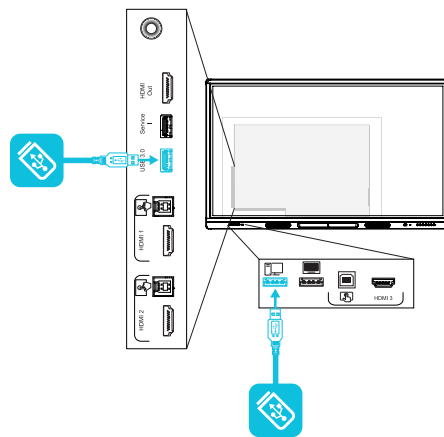
**SMART Board MX (V3) series**



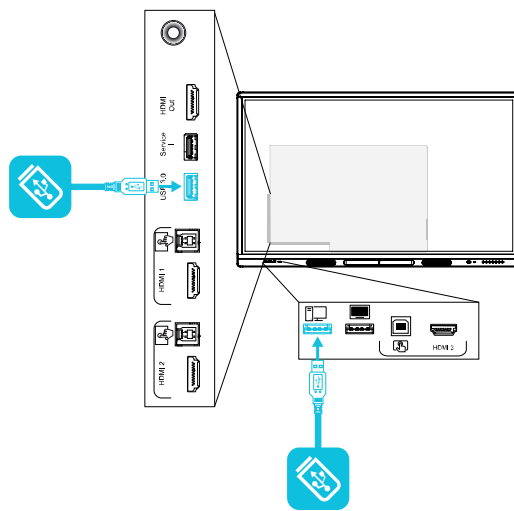
**SMART Board MX (V2-C) series**



**SMART Board MX (V2) series**



**SMART Board MX series**



The following table shows which USB Type-A receptacles you can use with each input source and the supported USB speed:

Input source	USB 3.0 Type-A receptacle <sup>3</sup>	USB 2.0 Type-A receptacle <sup>4</sup>
iQ	✓ (SuperSpeed)	✓ (Hi-Speed)

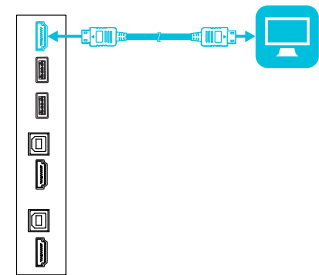
<sup>3</sup>Located on the side connector panels of SMART Board MX (V2, V2-C, V3, and V4) series displays

<sup>4</sup>Located on the front connector panels of all displays and on the side connector panel of SMART Board MX series displays

Input source	USB 3.0 Type-A receptacle <sup>3</sup>	USB 2.0 Type-A receptacle <sup>4</sup>
HDMI 1	✓ (SuperSpeed)	✓ (Hi-Speed)
HDMI 2	✓ (SuperSpeed)	✓ (Hi-Speed)
HDMI 3	✓ (SuperSpeed)	✓ (Hi-Speed)
VGA	✓ (SuperSpeed)	✓ (Hi-Speed)
Accessory slot	✓ (SuperSpeed)	✓ (Hi-Speed)
OPS PC	✓ (SuperSpeed)	✓ (Hi-Speed)

## Connecting an external display

You can connect an external display to SMART Board MX (V2 and V2-C) series displays using the HDMI 2.0 out connector on the connector panel (pictured). The external display will show the same image. This is useful when you're using the display in an auditorium or other large space where it would be beneficial to have a second display.



### Note

SMART Board MX (V3N) series displays do not include an HDMI Out connector.

### ⚠ Important

If the connected external display doesn't support HDCP, the image on the external display is limited to 480p resolution. For full resolution output, connect a display that supports HDCP.

## Connecting an external audio system

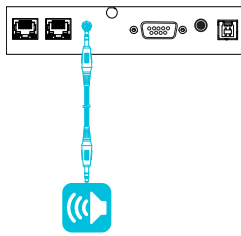
The display includes two speakers, which are designed to provide sound at the front of a room. You might want to connect an external audio system if you're providing sound in a larger space.

You can connect an external audio system to the display using the stereo 3.5 mm out connector (pictured). This disables the display's internal speakers. Alternatively, you can connect an external audio system directly to a room computer.

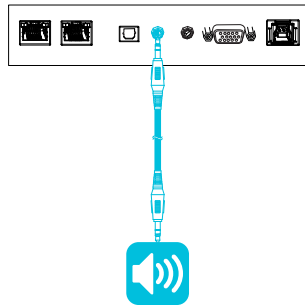
<sup>3</sup>Located on the side connector panels of SMART Board MX (V2, V2-C, V3, and V4) series displays

<sup>4</sup>Located on the front connector panels of all displays and on the side connector panel of SMART Board MX series displays

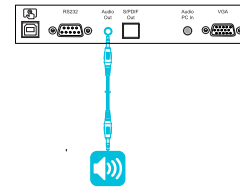
**SMART Board MX (V3) series**



**SMART Board MX (V2 and V2-C) series**

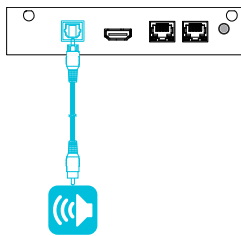


**SMART Board MX series**

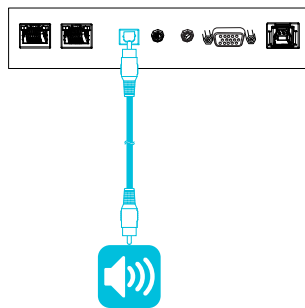


In addition to the stereo 3.5 mm out connector, the display provides a Sony/Philips Digital Interface (S/PDIF) out connector (pictured). S/PDIF is a digital audio transmission medium. You need an audio system that has an S/PDIF input to decode this connection to analog. Most external sound bars include a S/PDIF connector.

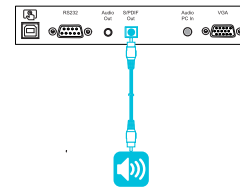
**SMART Board MX (V3) series**



**SMART Board MX (V2 and V2-C) series**



**SMART Board MX series**



**Note**

The S/PDIF audio is a fixed-volume output. Adjusting the display's volume for its internal speakers does not affect the volume output of the S/PDIF port.

## Connecting room control systems

A room control system enables users to control a room's lighting, audio system and, possibly, the display. Some installations may require you to integrate the display with a room control system.

You can use the display's RS-232 connector to connect a third-party external control system to the display (see default.htm).

**Note**

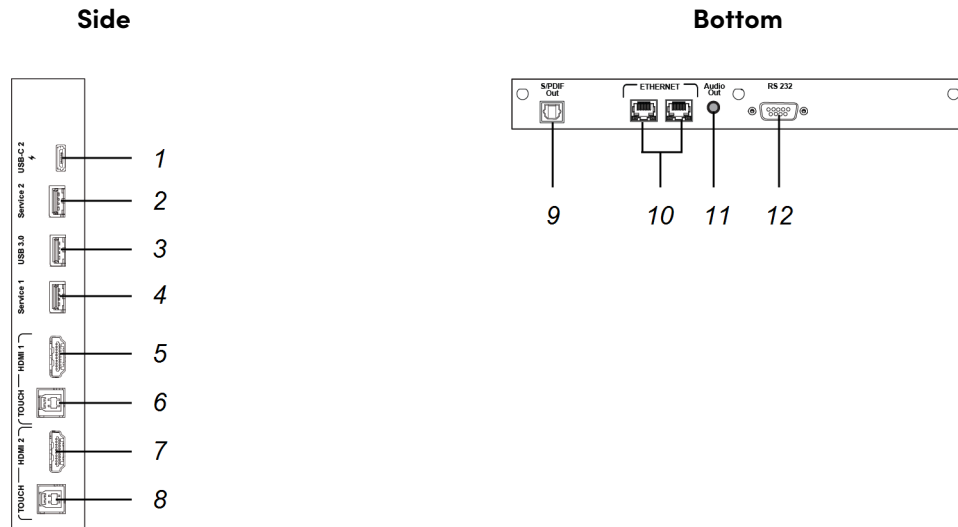
Displays are not compatible with centralized remote control systems, such as a universal remote control.

# Connector diagrams

## SMART Board MX (V4) series

### Connector panel

The following diagram and table present the connectors on the display's connector panel:



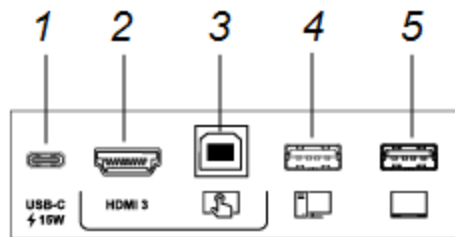
No.	Connector	Connects to	Notes
1	USB Type-C	USB Type-C 2 input	See page 35 and <a href="#">USB cables and connectors</a> .
2	USB 3.0 Type-A	[N/A]	This connector is a service port.
3	USB 3.0 Type-A	Supported USB drives, peripherals, and other devices	See page 43 and <a href="#">USB cables and connectors</a> .
4	USB 2.0 Type-A	[N/A]	This connector is a service port.
5	HDMI 2.0 in	HDMI 1 input (video and audio)	See page 35 and <a href="#">HDMI cables and connectors</a> .
6	USB 3.0 Type-B	HDMI 1 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
7	HDMI 2.0 in	HDMI 2 input (video and audio)	See page 35 and <a href="#">HDMI cables and connectors</a> .
8	USB 3.0 Type-B	HDMI 2 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .



No.	Connector	Connects to	Notes
9	S/PDIF out	Digital audio output	See page 45 and <a href="#">Digital audio cables and connectors</a> .
10	RJ45 (×2)	Network	See page 27 and <a href="#">Ethernet (network) cables and connectors</a> .
11	Stereo 3.5 mm out	External audio system	See page 45 and <a href="#">Analog audio cables and connectors</a> .
12	RS-232	Room control system	See default.htm and <a href="#">RS-232 cables and connectors</a> .

### Front connector panel

The following diagram and table present the connectors on the display's front connector panel:

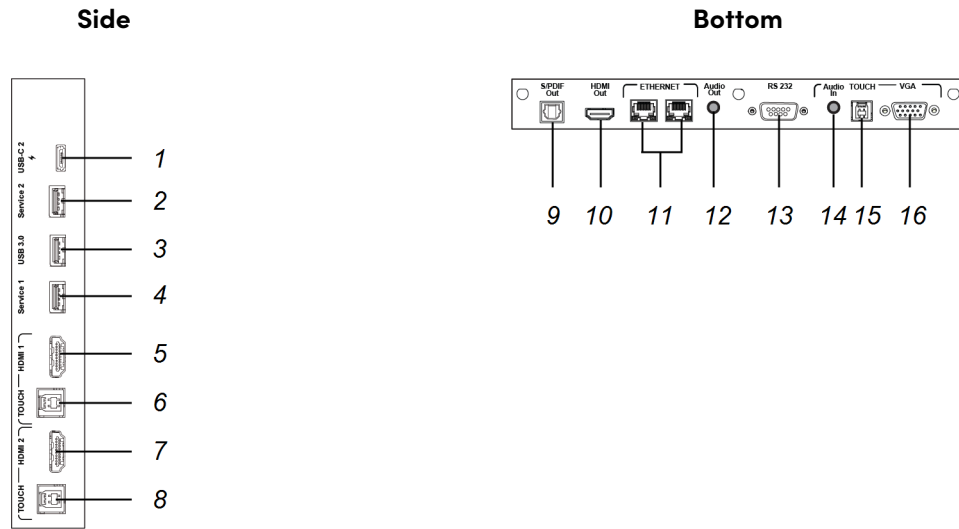


No.	Connector	Connects to	Notes
1	USB Type-C	USB Type-C 1 input	See page 35 and <a href="#">USB cables and connectors</a> .
2	HDMI 3 input connector	HDMI 3 input (video and audio)	See page 35 and <a href="#">Analog audio cables and connectors</a> .
3	USB 3.0 Type-B connector	HDMI 3 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
4	USB 2.0 Type-A	Supported USB drives, peripherals, and other devices	See page 43 and <a href="#">USB cables and connectors</a> .
5	USB 2.0 Type-A connector	Supported USB drives	Connect a USB drive to update the display's firmware.

## SMART Board MX (V3) series

### Connector panel

The following diagram and table present the connectors on the display's connector panel:



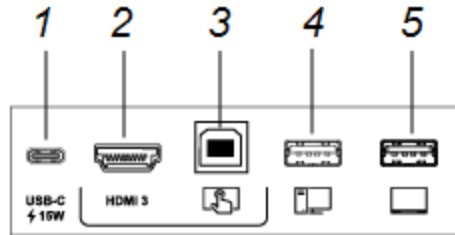
No.	Connector	Connects to	Notes
1	USB Type-C	USB Type-C 2 input	See page 35 and <a href="#">USB cables and connectors</a> .
2	USB 3.0 Type-A	[N/A]	This connector is a service port.
3	USB 3.0 Type-A	Supported USB drives, peripherals, and other devices	See page 43 and <a href="#">USB cables and connectors</a> .
4	USB 2.0 Type-A	[N/A]	This connector is a service port.
5	HDMI 2.0 in	HDMI 1 input (video and audio)	See page 35 and <a href="#">HDMI cables and connectors</a> .
6	USB 3.0 Type-B	HDMI 1 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
7	HDMI 2.0 in	HDMI 2 input (video and audio)	See page 35 and <a href="#">HDMI cables and connectors</a> .
8	USB 3.0 Type-B	HDMI 2 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
9	S/PDIF out	Digital audio output	See page 45 and <a href="#">Digital audio cables and connectors</a> .
10	HDMI 2.0 out <sup>5</sup>	External display	See <i>Connecting an external display</i> on page 45 and <a href="#">HDMI cables and connectors</a> .
11	RJ45 (×2)	Network	See page 27 and <a href="#">Ethernet (network) cables and connectors</a> .
12	Stereo 3.5 mm out	External audio system	See page 45 and <a href="#">Analog audio cables and connectors</a> .
13	RS-232	Room control system	See <a href="#">default.htm</a> and <a href="#">RS-232 cables and connectors</a> .
14	Stereo 3.5 mm in	VGA input (audio)	See page 35 and <a href="#">Analog audio cables and connectors</a> .
15	USB 3.0 Type-B	VGA input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
16	VGA in	VGA input (video)	See page 35 and <a href="#">VGA cables and connectors</a> .

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<sup>5</sup>V3N models do not include an HDMI Out connector.

### Front connector panel

The following diagram and table present the connectors on the display's front connector panel:

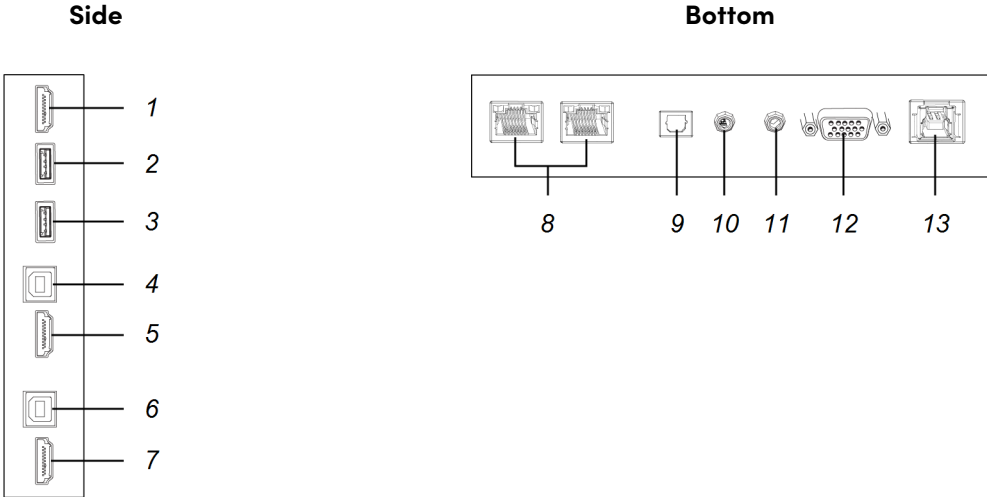


No.	Connector	Connects to	Notes
1	USB Type-C	USB Type-C 1 input	See page 35 and <a href="#">USB cables and connectors</a> .
2	HDMI 3 input connector	HDMI 3 input (video and audio)	See page 35 and <a href="#">Analog audio cables and connectors</a> .
3	USB 3.0 Type-B connector	HDMI 3 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
4	USB 2.0 Type-A	Supported USB drives, peripherals, and other devices	See page 43 and <a href="#">USB cables and connectors</a> .
5	USB 2.0 Type-A connector	Supported USB drives	Connect a USB drive to update the display's firmware.

## SMART Board MX (V2 and V2-C) series

### Connector panel

The following diagram and table present the connectors on the display's connector panel:

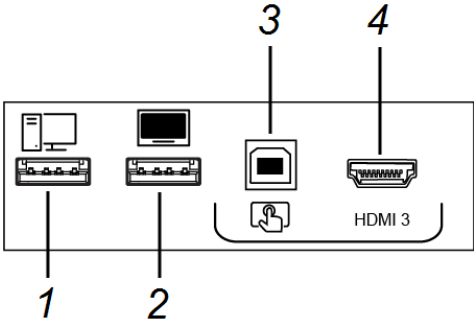


No.	Connector	Connects to	Notes
1	HDMI 2.0 out	External display	See <i>Connecting an external display</i> on page 45 and <a href="#">HDMI cables and connectors</a> .
2	USB 2.0 Type-A	[N/A]	This connector is a service port.
3	USB 3.0 Type-A	Supported USB drives, peripherals, and other devices	See page 43 and <a href="#">USB cables and connectors</a> .
4	USB 3.0 Type-B	HDMI 1 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
5	HDMI 2.0 in	HDMI 1 input (video and audio)	See page 35 and <a href="#">HDMI cables and connectors</a> .
6	USB 3.0 Type-B	HDMI 2 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
7	HDMI 2.0 in	HDMI 2 input (video and audio)	See page 35 and <a href="#">HDMI cables and connectors</a> .
8	RJ45 (×2)	Network	See page 27 and <a href="#">Ethernet (network) cables and connectors</a> .
9	S/PDIF out	Digital audio output	See page 45 and <a href="#">Digital audio cables and connectors</a> .
10	Stereo 3.5 mm out	External audio system	See page 45 and <a href="#">Analog audio cables and connectors</a> .
11	Stereo 3.5 mm in	VGA input (audio)	See page 35 and <a href="#">Analog audio cables and connectors</a> .
12	VGA in	VGA input (video)	See page 35 and <a href="#">VGA cables and connectors</a> .
13	USB 3.0 Type-B	VGA input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .

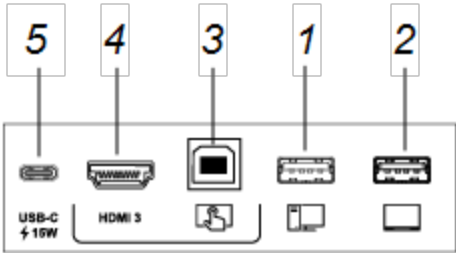
### Front connector panel

The following diagram and table present the connectors on the display's front connector panel:

**SMART Board MX (V2) series**



**SMART Board MX (V2-C) series**

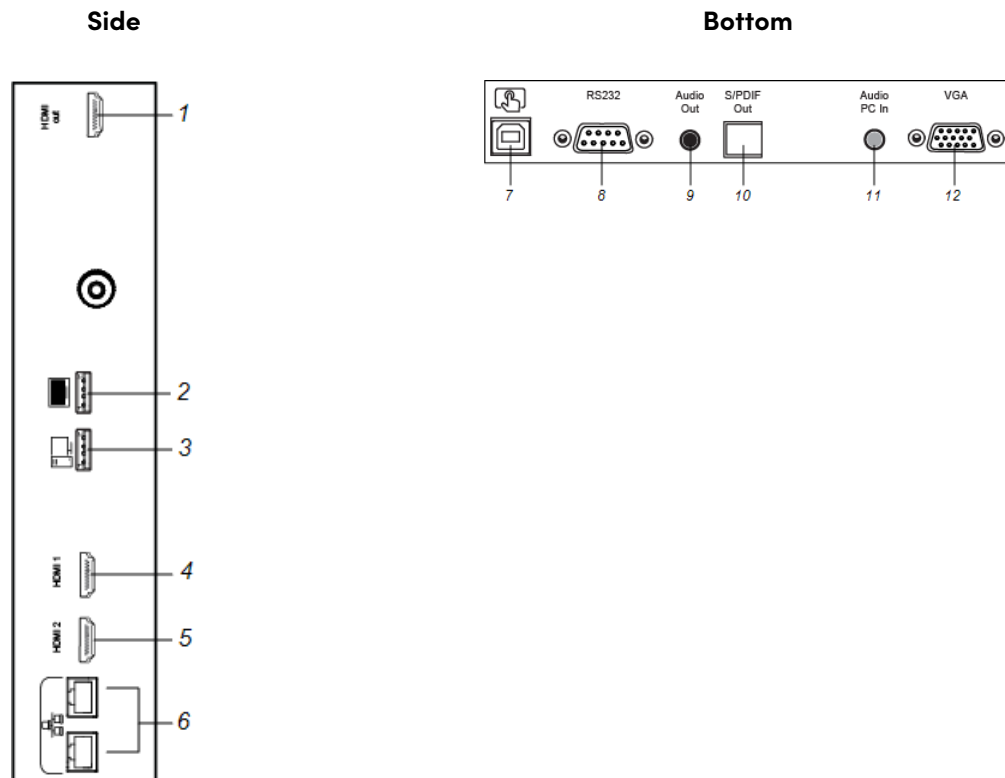


No.	Connector	Connects to	Notes
1	USB 2.0 Type-A	Supported USB drives, peripherals, and other devices	See page 43 and <a href="#">USB cables and connectors</a> .
2	USB 2.0 Type-A connector	Supported USB drives	Connect a USB drive to update the display's firmware.
3	USB 2.0 Type-B connector	HDMI 3 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
4	HDMI 3 input connector	HDMI 3 input (video and audio)	See page 35 and <a href="#">Analog audio cables and connectors</a> .
5	USB Type-C input source connector	USB Type-C input	See page 35 and <a href="#">USB cables and connectors</a> .

## SMART Board MX series

### Connector panel

The following diagram and table present the connectors on the display's connector panel:

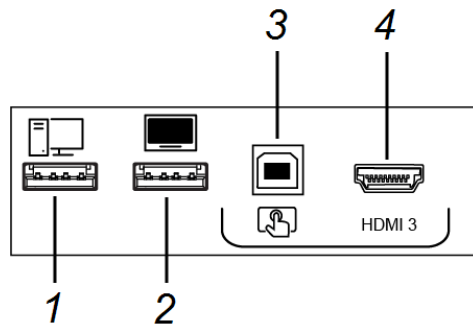




No.	Connector	Connects to	Notes
1	HDMI 1.4 out (HDCP-compliant)	External monitor	This connector is HDCP-encrypted HDMI.  <b>Note</b> HDMI out is an optional feature. Contact your authorized SMART reseller ( <a href="http://smarttech.com/where">smarttech.com/where</a> ) for further ordering instructions.
2	USB 2.0 Type-A connector	Supported USB drives, peripherals, and other devices	Connect a USB drive to update the display's firmware.  <b>Note</b> If troubleshooting an issue with the display, connect a USB mouse to navigate the display's on-screen menu.
3	USB 2.0 Type-A connector	Supported USB drives, peripherals, and other devices	See page 43 and <a href="#">USB cables and connectors</a> .
4	HDMI 1 2.0 in	HDMI 1 input (video and audio)	See page 35 and <a href="#">HDMI cables and connectors</a> .
5	HDMI 2 2.0 in	HDMI 2 input (video and audio)	See page 35 and <a href="#">HDMI cables and connectors</a> .
6	RJ45 (×2)	Network	See page 27 and <a href="#">Ethernet (network) cables and connectors</a> .
7	USB 2.0 Type-B	HDMI 1, HDMI 2, or VGA input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
8	RS-232	Room control system	See <a href="#">default.htm</a> and <a href="#">RS-232 cables and connectors</a> .
9	Stereo 3.5 mm out	External audio system	See page 45 and <a href="#">Analog audio cables and connectors</a> .
10	S/PDIF out	Digital audio output	See page 45 and <a href="#">Digital audio cables and connectors</a> .
11	Stereo 3.5 mm in	VGA input (audio)	See page 35 and <a href="#">Analog audio cables and connectors</a> .
12	VGA in	VGA input (video)	See page 35 and <a href="#">VGA cables and connectors</a> .

### Front connector panel

The following diagram and table present the connectors on the display's front connector panel:



No.	Connector	Connects to	Notes
1	USB 2.0 Type-A	Supported USB drives, peripherals, and other devices	See page 43 and <a href="#">USB cables and connectors</a> .
2	USB 2.0 Type-A connector	Supported USB drives	Connect a USB drive to update the display's firmware.
3	USB 2.0 Type-B connector	HDMI 3 input (touch)	See page 35 and <a href="#">USB cables and connectors</a> .
4	HDMI 3 input connector	HDMI 3 input (video and audio)	See page 35 and <a href="#">Analog audio cables and connectors</a> .

### AM40 and AM50 appliances

See [iQ appliance connector panel](#).

FCC warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body

IC warning:

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

ce matériel est conforme aux limites d'exposition aux rayonnements rf de ic énoncés dans un autre environnement. ce matériel doit être installé et exploité à une distance minimale de 20 cm entre le radiateur et votre corps.

**SMART Technologies**

[smarttech.com/support](http://smarttech.com/support)

[smarttech.com/contactsupport](http://smarttech.com/contactsupport)

[smarttech.com/kb/171555](http://smarttech.com/kb/171555)