

QCI-IDNMOD1 Smart QX V4 Nfc Module



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Was this document helpful?

- smarttech.com/docfeedback/171896

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). Scan this QR code to view these resources on your mobile device.



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This product and/or use thereof is covered by one or more of the following U.S. patents:

www.smarttech.com/patents October 25, 2023

Important information

Note

Refer to the SMART Board MX (V5) and MX Pro (V5) series interactive displays installation and maintenance guide (smarttech.com/kb/171897) for important information about installing and maintaining the display.

Warning

- 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.
- To reduce the risk of fire or electric shock, do not expose the display to rain or moisture.
- 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.
- If the glass is broken, do not touch the liquid crystal. To prevent injury, handle glass fragments with care when disposing of them.
- 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.

Welcome

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

About this guide

This guide explains how to use a SMART Board MX (V5) or MX Pro (V5) series interactive display. This guide is intended for individuals who use displays in their organizations. Other documentation and resources are available for those who install and maintain displays (see More information on page 13).

About the display's features and components

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. For more information, see Using touch on page 18.

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. For more information, see Writing, drawing, and erasing on page 20.

iQ

SMART Board MX (V5) and MX Pro (V5) series models with iQ feature 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 Home screen, you can open the iQ apps, switch inputs, and adjust settings. For more information about the Home screen, see Using the Home button on page 15. For more information about the iQ apps, see Chapter 3 Using the iQ apps on page 29.

Display

The 4K ultra-high-definition LCD provides optimal image clarity and wide viewing angles. The size of the display varies by model:

Models	Size (diagonal)
SBID-MX255-V5, SBID-MX255-V5-PW, SBID-MX055-V5, SBID-MX055-V5-PW	55"

Models	Size (diagonal)
SBID-MX265-V5, SBID-MX265-V5-PW, SBID-MX065-V5, SBID-MX065-V5-PW	65"
SBID-MX275-V5, SBID-MX275-V5-PW, SBID-MX075-V5, SBID-MX075-V5-PW	75"
SBID-MX286-V5, SBID-MX286-V5-PW, SBID-MX086-V5, SBID-MX086-V5-PW	86"

Audio

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

NFC sign in

SMART Board MX (V5) and MX Pro (V5) series models with iQ allow you to sign in to your SMART Account using near field communication (NFC): just hold your SMART ID card to the card reader area on the display's frame and enter a PIN. This feature helps you save time signing in to your account without typing your username and password. For more information, see *Using the SMART ID card with the display* on page 22.

Microphone array

You can use SMART Board MX (V5) and MX Pro (V5) models' built-in microphone array with a conferencing app. The microphone array provides improved sound detection. You can also use the display's built-in microphone array in place of a connected computer's microphone. For more information, see *Using the microphone array* on page 27.

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 an Ethernet network.

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 4 Connecting Computers and other devices* on page 32.

Accessory slot

For more information about SMART OPS PC modules, see *SMART OPS PC module* on page 13.

Caution

The accessory slot's maximum available power is 85 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 *Using the front control panel* on page 15.

Front connector panel

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

information about the front connector panel, see Connecting Room Computers and guest laptops on page 35.

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.

Power status light

The power status light 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 Using the remote control on page 16.

Identifying your specific model

There are several models of SMART Board MX (V5) and MX Pro (V5) series interactive displays:

Model	Screen size (approximate)
SBID-MX255-V5	55" (140 cm)
SBID-MX265-V5	65" (165 cm)
SBID-MX275-V5	75" (190 cm)
SBID-MX286-V5	86" (218 cm)
SBID-MX255-V5-PW	55" (140 cm)
SBID-MX265-V5-PW	65" (218 cm)
SBID-MX275-V5-PW	75" (165 cm)
SBID-MX286-V5-PW	86" (190 cm)
SBID-MX055-V5	55" (140 cm)
SBID-MX065-V5	65" (165 cm)
SBID-MX075-V5	75" (190 cm)
SBID-MX086-V5	86" (218 cm)
SBID-MX055-V5-PW	55" (140 cm)
SBID-MX065-V5-PW	65" (165 cm)
SBID-MX075-V5-PW	75" (190 cm)
SBID-MX086-V5-PW	86" (218 cm)

Accessories

Accessories for the display include:

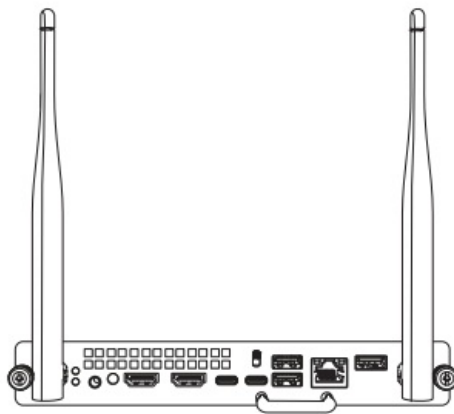
- SMART OPS PC module
- Stands
- USB extenders

Note

For more information about these and other accessories, see smarttech.com/accessories.

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 Board interactive display. All OPS PC modules are 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 services 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.

Note

For users in Australia and New Zealand: SMART does not provide stands for use in Australia and New Zealand, nor can we provide recommendations for stands from other vendors.

USB extenders

As noted in the display's specifications, there is a maximum length for USB cable connections between the display and computer. Use the USB-Xt extender if you need a longer USB connection. See the USB-Xt extender specifications (smarttech.com/kb/119318).

Note

For more information about extending USB connections, see USB cable extenders.

More information

In addition to this guide, SMART provides other documents for display in the Support section of the SMART

website (smarttech.com/support). Scan the QR code on page 2 to view links to SMART Board MX and MX Pro series interactive display documents and other support resources.

Using basic features

This chapter explains how to wake the display when it's asleep, how to view connected computers' input, and how to interact with the display.

Waking up the display and putting it back to sleep

To wake the display, press the **Power button** on the front control panel or remote control. To return the display to a partial sleeping state, press the **Power button** on the front control panel or remote control.

Note



Touch is not available immediately after waking or turning on the display. Wait a few seconds, and then the display will respond to touch.

For information about turning the display off, see the SMART Board MX (V5) and MX Pro (V5) series interactive displays installation and maintenance guide (smarttech.com/kb/171897).

Using the Home button

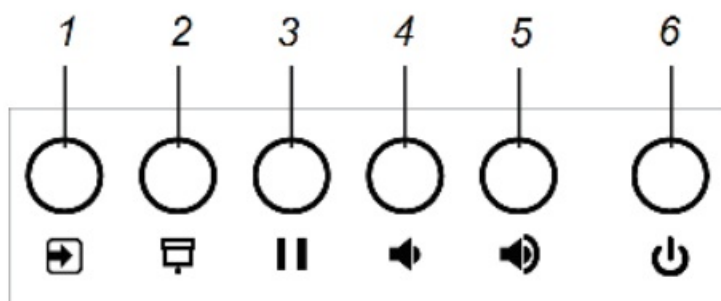
You can use the Home screen to open and use iQ apps, view the input of connected computers, and more. You can also change the background and personalize other features of the Home screen. To learn more about the Home screen, see Understanding the Home screen. The Input screen shows thumbnails of connected computers and allows you to switch among inputs. You can return to the Home screen or the Input screen at any time by following the instructions below.

To show the Home screen or the Input screen

- Press the Home button  below the screen.
- OR
- Press the Home button  on the remote control.

Using the front control panel

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



No.	Name	Procedure
1	Input select	Press to switch inputs (see <i>Viewing a connected computer's input</i> on page 36).
2	Screen shade	Press to hide screen contents behind a screen shade (see <i>Freezing or hiding the screen</i> on page 22).
3	Freeze	Press to freeze and unfreeze the screen (see <i>Freezing the screen</i> on page 22).
4	Volume decrease	Press to turn down the volume (see <i>Adjusting the volume</i> on page 21).
5	Volume increase	Press to turn up the volume (see <i>Adjusting the volume</i> on page 21).
6	Power	Press to wake the display and press again to enter Sleep mode (see <i>Waking up the display and putting it back to sleep</i> on page 14).

Using the remote control

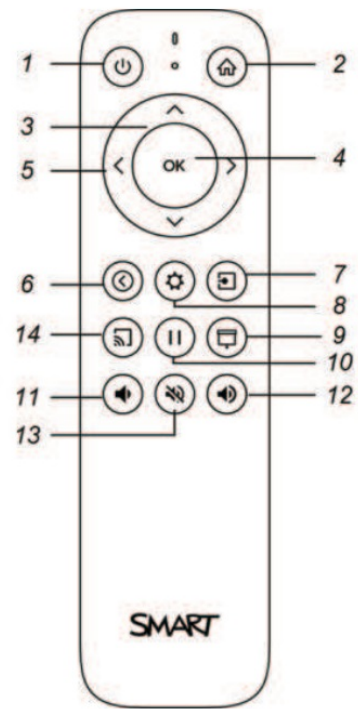
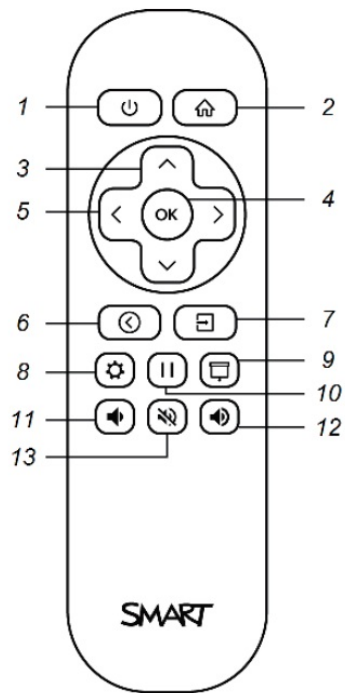
The display comes with an infrared remote control.

Use the infrared remote control to turn the display on or off, switch inputs, control the volume, access the display's iQ apps, and more. You can also use the remote control to open the on-screen menus and change the display's settings.

Important

- Do not subject the remote control to strong shock.
- Keep the remote control away from liquids. If it gets wet, wipe it dry immediately.
- Do not expose the remote control to heat or steam.
- Do not open any part of the remote control other than the battery compartment.

The image and table below list the remote control's functions.



No.	Name	Procedure
		Note
1	Power	<p>I Press to enter or exit Standby mode (see <i>Waking up the display and putting it back to sleep</i> on page 14).</p> <p>Touch is not available immediately after waking or turning on the display. Wait a few seconds, and then the display will respond to touch.</p>
		I Press and hold for four seconds to turn off the display.
2	Home	Open the iQ Home screen (see <i>Using the Home button</i> on
		page 15).
3	Up and down buttons	Select a menu option in the settings.
4	OK	Select menu option in the settings.
5	Left and right buttons	Change the value of the selected setting.
6	Back	Go one step back in the navigation history.
7	Input	Switch inputs (see <i>Viewing a connected computer's input</i> on
		page 36).
8	Settings	Open display settings.
9	Screen shade	Hide screen contents behind a screen shade (see <i>Showing and hiding the screen shade</i> on page 22).
10	Freeze frame	Freeze and unfreeze the screen (see page 22).
11	Volume increase	Increase the volume (see <i>Adjusting the volume</i> on page 21).
12	Volume decrease	Decrease the volume (see <i>Adjusting the volume</i> on page 21).
13	Volume mute	Mute the volume (see <i>Adjusting the volume</i> on page 21).
14	Share screen	Open the Screen Share app (see <u>Sharing your device's screen to the display</u>).
		<p>Note</p> <p>This button is not available on all remote control models.</p>

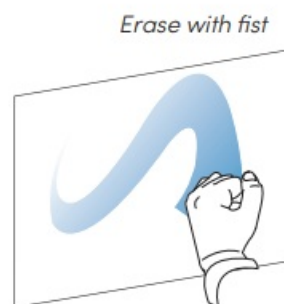
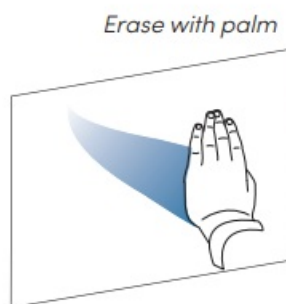
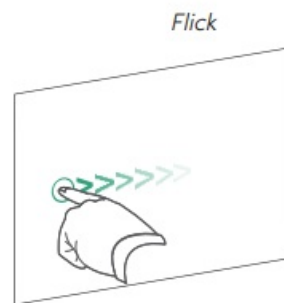
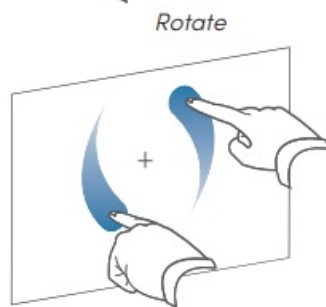
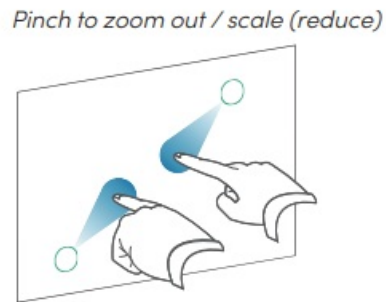
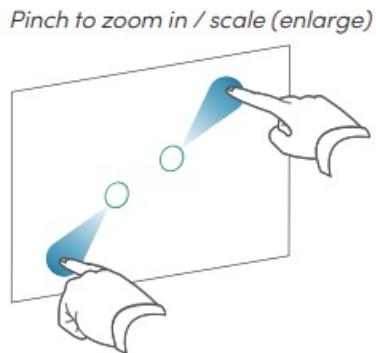
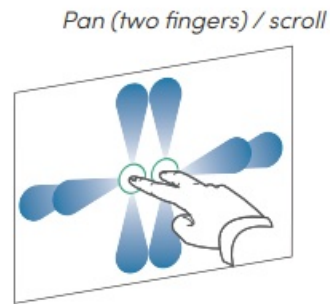
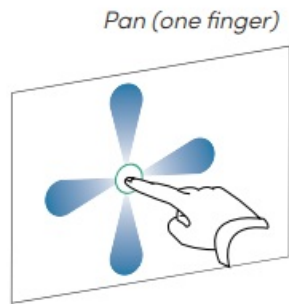
Using touch

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

You can use a variety of gestures within applications, including panning, scaling, rotating, and zooming. The display's support for up to 20 simultaneous interaction points enables you and other users to interact with objects on the screen at the same time.

Note

Not all gestures work in all applications. Refer to an application's documentation to learn which gestures it supports.

**Writing, drawing, and erasing**

The display includes two pens, which you can use to write or draw in digital ink. You can erase digital ink using gestures or the eraser tool in the apps.

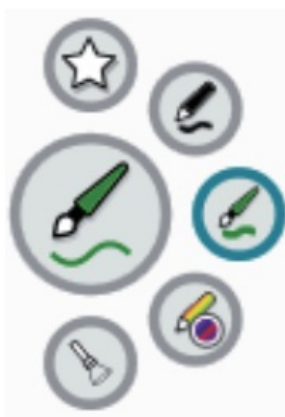
Writing and drawing in digital ink

1. Pick up one of the display's pens.
2. Use the pen to write or draw in digital ink.

Using the SMART Ink® dynamic (floating) toolbar

When you start drawing on the screen while viewing a connected computer's input, the SMART Ink dynamic (floating) toolbar for SMART Ink appears on the screen. You can use this toolbar to temporarily change the pen's color, thickness, or other properties. You can also access SMART Ink's other tools, such as screen capture, spotlight, screen shade, and so on. To learn more about SMART Ink and its toolbar, visit the SMART Product Drivers and Ink support page. Here are a few quick links to get you started:

- Turning SMART Ink on or off
- Opening the dynamic (floating) toolbar
- Closing (hiding) the toolbar
- Using presentation tools



Changing a pen's default color, thickness, and other properties

You can change a pen's color, thickness, and other properties temporarily using the SMART Ink dynamic (floating) toolbar when you're viewing a connected computer's input. To change the pen's default color, thickness, and other properties, see [Changing pen, eraser, and button settings](#).

Erasing digital ink

You can erase digital ink from the screen using your palm or fist.

To erase digital ink

Move your fist or palm over the digital ink you want to erase.



Adjusting the volume

Use the buttons on the front control panel or the remote control to increase, decrease, or mute the display's volume.

To turn the volume up or down

Press the Volume Up button or Volume Down button on the front control panel or the remote control.

Notes

- Press and hold the Volume Down button to rapidly decrease the volume.
- When you press the Volume Up button or Volume Down button on the front control panel or the remote control,

you can use the on-screen slider to adjust the volume.

To mute the volume

Press the remote control's Mute button .

Freezing or hiding the screen

You can temporarily freeze or hide the screen contents using the display's freeze and screen shade features.

Freezing the screen

You can temporarily freeze the screen by pressing the Freeze button on the front control panel or remote control. This is particularly useful when you want to pause a video, an animation, or other moving images.

Note

Freezing the screen does not pause applications that are running on the connected computer or audio. It simply freezes the display of those applications.

Tip

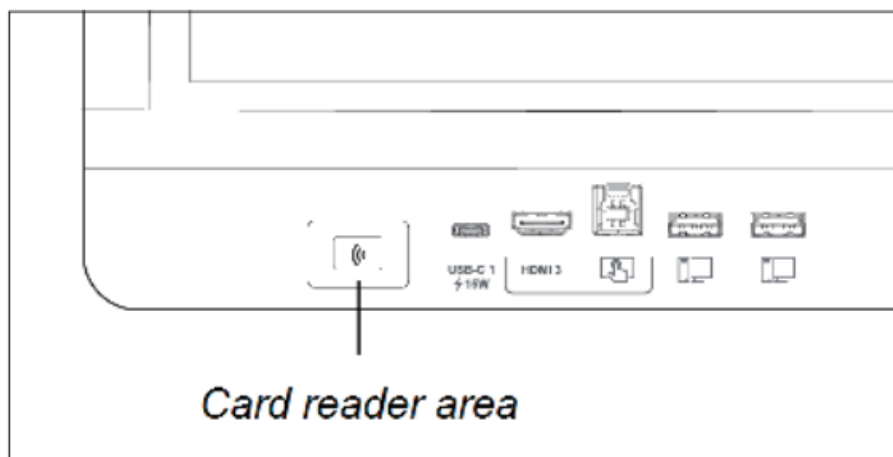
You can write or draw over the screen while it is frozen (see Writing, drawing, and erasing on page 20). If iQ is enabled, you can then save the screenshot of your writing or drawing to the Files Library (see Opening and managing files). To unfreeze the screen, press the Freeze button again.

Showing and hiding the screen shade

You can temporarily hide the contents of the screen behind a virtual screen shade by pressing the Screen Shade button on the front control panel or remote control. To remove the screen shade and reveal the screen contents, press the Screen Shade button again.

Using the SMART ID card with the display

The SMART Board MX (V5) and MX Pro (V5) series models' integrated RFID NFC reader/writer technology enables you to sign in to your SMART Account by holding a SMART ID card to the card reader area on the display's frame (pictured below) and then typing your PIN.



After you set up your SMART ID card, you can use it to sign in to any NFC-enabled SMART Board interactive display with iQ. Signing in with your SMART ID card gives you access to the usual features of your SMART Account. You can personalize the display's settings (such as the display's wallpaper) and download files from Google Drive™ or OneDrive™. If your SMART Account is connected to an active SMART Learning Suite subscription, you can also sync all your lesson files from SMART Notebook software and Lumio™ by SMART to the display.

NFC sign in requires:

- iQ system version 3.12 SP2 or later.
- the display to be connected to a network.

Important

Only SMART ID cards are supported.

Notes

- When you hold your SMART ID card to the card reader area on the frame, keep the card as flat as possible.
- If you select a different service region, you'll need to set up your SMART ID card again by removing the card and setting it up again.
- If you're signed in to your SMART Account on one display but then sign in on a second display, you'll be signed into your SMART Account on both displays.

Tip

After signing into your SMART Account, be sure to sign out at the end of the session to keep your account secure. For extra security, IT administrators can enable the Automatic inactivity log out setting within Settings > Security to make the display sign out of a user's SMART Account automatically after a period of inactivity.

Setting up a SMART ID card

1. Tap your profile avatar to open the Notification Center.



2. At the bottom of the Notification Center, tap Sign In and choose an option for signing in to your SMART Account. Enter your user name password when prompted.
3. Open the Notification Center again and tap Edit account > Set up ID card > Add ID card.
4. Type a PIN (which can also include symbols for added security), and tap Next. You use this PIN when you use your SMART ID card to sign in to your SMART Account. This is designed to prevent your SMART ID card being used by an unauthorized user.
5. Re-type the PIN and tap Next.
6. Hold your SMART ID card to the card reader area on the frame for 1 or 2 seconds.
7. When prompted, hold your SMART ID card to the card reader area on the frame again for 1–6 seconds.

Your SMART ID card is now set up, and you can use it to sign in to your SMART Account on any NFC-enabled SMART Board interactive display that's connected to a network.

Signing in to your SMART Account using your SMART ID card

To use your SMART ID card to sign in to your SMART Account

1. Hold your SMART ID card to the card reader area on the frame for 1 or 2 seconds.
2. Enter your PIN and tap Next.
3. Hold your SMART ID card to the card reader area on the frame for 1 or 2 seconds. You are signed in to your SMART Account on the display.

To sign out of your SMART Account

1. Tap your profile avatar to open the Notification Center.



2. At the bottom of the Notification Center, tap Sign out.

Locking and unlocking your display using your SMART ID card

Notes

1. Locking and unlocking your display using your SMART ID card is supported in iQ system version

or later.

- You must set up your SMART ID card before using it to lock and unlock the display (see Setting up a SMART ID card on the previous page).
- You must be signed in to your SMART Account to use your SMART ID card to lock and unlock the display (see Signing in to your SMART Account using your SMART ID card on the previous page).
- You can also temporarily lock your display with a PIN to prevent unauthorized access. See Setting up a lock screen PIN. If you attempt to use a SMART ID card other than the one used to lock the screen, you'll need to enter a Lock Screen PIN to unlock the screen.

To lock your display using your SMART ID card

Hold your SMART ID card to the card reader area on the frame for 1 to 2 seconds.

To unlock your display using your SMART ID card

Hold your SMART ID card to the card reader area on the frame for 1 to 2 seconds.

Note

If you attempt to unlock the screen using a SMART ID card that is different to the one used to lock the screen, you'll be prompted to enter the lock screen PIN. For information about using the lock screen PIN, see Setting up a Lock Screen PIN.

Managing your SMART ID card

To change the PIN associated with your SMART ID

Note

If you choose a new PIN, you won't be able to unlock your screen using your old PIN.

1. Sign in to your SMART Account on your display (see Signing in to your SMART Account using your SMART ID card on page 24).
2. Tap your profile avatar to open the Notification Center.



3. At the bottom of the Notification Center, tap Edit account > Reset ID card PIN.
4. Type a new PIN (which can also include symbols for added security), and tap Next.
5. Hold your SMART ID card to the card reader area on the frame for 1 or 2 seconds.
6. When prompted, hold your SMART ID card to the card reader area on the frame again for 1–6 seconds. The PIN associated with your SMART ID card has now been changed.

To remove a SMART ID card from your SMART Account

Note

If you remove a SMART ID card from your SMART Account, you'll no longer be able to use that card to sign in to your account.

1. Sign in to your SMART Account on your display (see Signing in to your SMART Account using your SMART ID card on page 24).
2. Open the Notification Center and tap Edit account > Remove ID card.
3. Tap Remove. The SMART ID card has now been removed from your Account.

Using the microphone array

You can use the microphone array to capture audio while using a conferencing app on your display. You can also connect a room computer or guest laptop to the display and use the display's built-in microphone array in place of the connected computer's. The microphone array provides improved sound selection and noise cancellation.

Note

To learn more about installing third-party apps, see [Adding and managing apps in the iQ experience](#).

To use the microphone array with the display's conferencing apps

- Start the conferencing app on the display.
- If the display's microphone array is not automatically selected, open the sound controls in the conferencing app and select SMART IFP Mic from the list of sound input devices.

Tip

Use the sound controls in your display's conferencing app to adjust settings such as background noise reduction and microphone sensitivity.

To use the microphone array with a connected computer

1. Connect the computer to the display and select it as the display's input. (see [Viewing a connected computer's input on page 36](#)).
2. Open the sound controls on the connected computer.

Windows computer

Select Start > Settings > System > Sound > Input > Choose your input device.

Mac computer Select Apple menu > System Preferences, click Sound, then click Input.

3. Select SMART IFP Mic from the list of sound input devices.

Tip

Use the connected computer's sound controls to adjust settings such as input volume and background noise reduction.

To set the microphone array as the default microphone when using a conferencing app on a connected computer

1. Connect the computer to the display and select it as the display's input (see [Viewing a connected computer's input on page 36](#)).
2. Start the conferencing app on the computer.
3. Open the conferencing app's sound controls and select SMART IFP Mic from the list of sound input devices.

Tip

Use the conferencing app's sound controls to adjust settings such as input volume and background noise reduction.

Using the iQ apps

Using the Home screen

iQ's Home screen shows recent files and favorite apps and files.

To show the Home screen

- Tap the Home button at the bottom of the screen.

To learn how to use the other features of Home screen, see [Understanding the Home Screen](#).

Using the Apps Library

The Apps Library contains the Browser and SMART Whiteboard. You can also add apps from the web and SMART's app store or install third-party apps.

To open the Apps Library

- From the Home screen, tap Apps .
- To learn how to use the other features of Apps Library, see [Understanding the Apps Library](#).

Using the Files Library

The Files Library contains SMART Notebook files, SMART Whiteboards, PDFs, and screenshots. If a USB drive is connected to the display, the files on the USB drive are also available in the Files Library. Although these files can be viewed on the display, they are not saved on the display.

To open Files Library

From the Home screen, tap Files .

To learn how to use the other features of Files Library, see [Understanding the Files Library](#).

Using SMART Whiteboard

Use the SMART Whiteboard in iQ to create whiteboards and open, view, and interact with SMART Notebook lesson files. To learn more about the SMART Whiteboard, see [About the SMART Whiteboard tools](#).

Using Browser

You can use Browser to view web sites on the display. To learn more about Browser, see [Browsing the internet on your display](#).

Using screen sharing

You can share the screens from computers and mobile devices on the display wirelessly using screen share. The screen sharing app supports the following devices:

- Chromebook™ laptops, using Google Cast™
- Windows computers, using Miracast¹ or Google Cast Chrome™ browser extension
- Mac computers and iOS devices, using AirPlay
- Android™ devices, using Cast Screen

To learn how to use the other features of the screen sharing app, see [Sharing your device's screen to the display](#).

Using screen captures

When using the Browser or screen share apps, you can write or draw on an annotation layer and save a screen capture to the Files library. To learn more about screen captures, see [Writing and drawing over apps](#).

Installing third-party apps

You can install third-party apps from the Google Play™ store using SMART Remote Management. To learn more about installing third-party apps, see [Deploying third-party apps on your display](#).

Cleaning up the display



- After you've finished using the display, open the launcher and tap Clean Up to clean up the display for the next user. To learn more, see [Preparing the display for the next user](#).

Connecting computers and other devices

Warning

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

Installing and using SMART software

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

Software	Description	Notes
SMART Notebook	Free software designed for use with a SMART Board interactive display. SMART Notebook software comes with many features that you can use to create, edit, and deliver engaging lessons for your students.	See About SMART Notebook .
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 and SMART Meeting Pro software.

Software	Description	Notes
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 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.	See SMART Remote Management .

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	Notes
SMART Learning Suite	A suite of desktop and online software that combines lesson delivery, activities, assessments, and collaborative workspaces. Includes SMART Notebook Plus software and Lumio by SMART.	For more information, see SMART Learning Suite .
SMART TeamWorks Room	Software that simplifies meetings and facilitates deeper, more natural interaction with onsite and remote participants.	For more information, see SMART TeamWorks .

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

Downloading and installing SMART software

You can download SMART software from smarttech.com/downloads and install it following the instructions in Installing and maintaining SMART Notebook, Installing SMART TeamWorks Room, or Installing and maintaining SMART Meeting Pro.

Using SMART software

For information about using SMART software, see the following pages in the Support section of the SMART website:

- SMART Notebook
- Lumio by SMART
- SMART Learning Suite
- SMART TeamWorks
- SMART Meeting Pro
- SMART Product Drivers and Ink
- SMART Remote Management

SMART Product Drivers and Ink are installed and used on computers connected to the display to enable touch and digital ink features. This supporting software is included with SMART's software products, such as SMART Notebook, SMART Meeting Pro, and SMART TeamWorks, and is also available for free download.

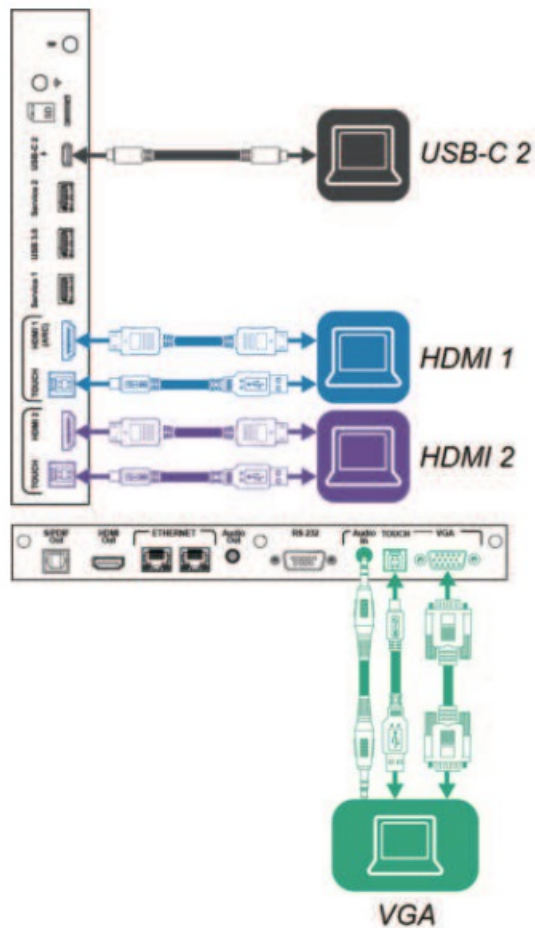
SMART Product Drivers and Ink software have a number of features you can use to customize default settings for your display and troubleshoot common issues:

- Adjust touch, mouse, and gesture settings
- Turn SMART Ink on or off
- Using SMART Ink with Microsoft® Office

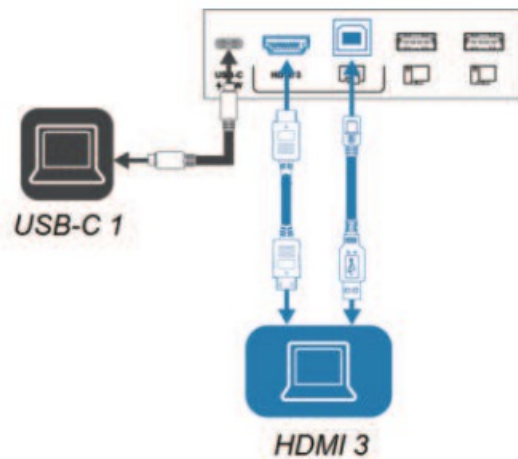
Connecting room computers and guest laptops

You can connect room computers and guest laptops to the display and view and interact with their inputs.

Side and bottom connector panels



Front connector panel



Notes

- Install SMART software on any computers you connect to the display (see Installing and using SMART software on page 32).
- Your organization's installers might have connected cables to the display and run the cables behind a wall or under the floor to a desk or table where you can place your computer.
- If a connected computer reports "Too many USB hubs" or "cannot start (code 10)," see the knowledge base article, SMART Board interactive displays and USB tier structure use.

Viewing a connected computer's input

1. Connect the computer to the display.
2. View the available inputs in one of the following ways:

- If iQ is enabled, tap **Input**  on the Home screen.
- OR


If iQ is disabled, press the **Home button** ( or ).

- Press **Input** on the front control panel.
- Press **Input** on the remote control.

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

- 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.

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

3. Tap the computer's thumbnail.

Setting a connected computer's resolution and refresh rate

This table presents the recommended resolutions and refresh rates for the display's USB-C and HDMI inputs:

Resolution	Input 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

Resolution	Input aspect ratio	Mode	Refresh rate
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

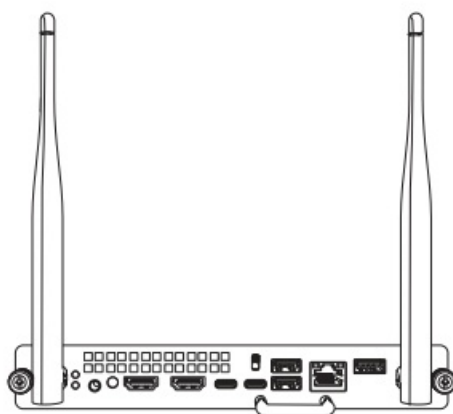
This table presents the recommend resolutions and refresh rates for the display's VGA input:

Resolution	Input 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	60.004 Hz
		XGA 70	70.069 Hz
		XGA 75	75.029 Hz
800 × 600	4:3	SVGA 60	60.317 Hz
		SVGA 72	72.188 Hz
		SVGA 75	75.000 Hz
640 × 480	4:3	VGA 60	59.940 Hz

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

Connecting a SMART OPS PC module

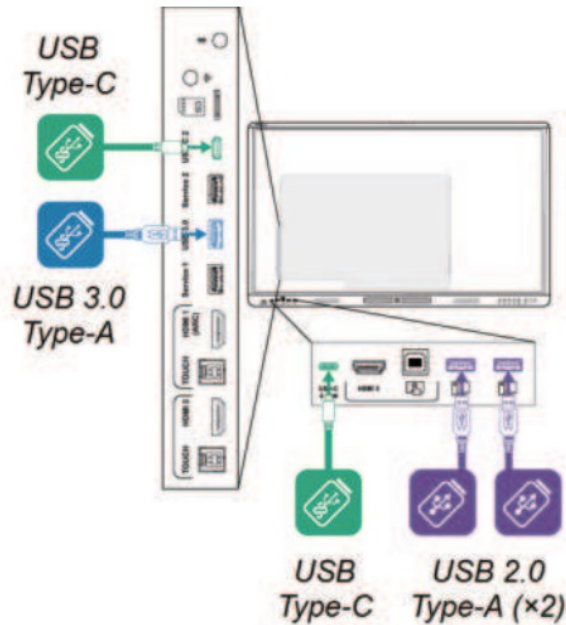
If your organization has purchased a SMART OPS PC module, you or your organization's installers can install the module in the display's accessory slot following the OPS PC module's installation instructions (docs.smarttech.com/kb/171775 or docs.smarttech.com/kb/171544). You can then view the OPS PC module's input on the display.



For more information about SMART OPS PC modules, see the SMART OPS PC modules user guide (docs.smarttech.com/kb/171747).

Connecting USB drives, peripherals, and other devices

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



This table shows the supported USB speeds for each input:

Input	USB 2.0 Type-A	USB 3.0 Type-A	USB Type-C
iQ	Hi-Speed	SuperSpeed	SuperSpeed
USB-C 1	Hi-Speed	Hi-Speed	Hi-Speed

Input	USB 2.0 Type-A	USB 3.0 Type-A	USB Type-C
USB-C 2	Hi-Speed	Hi-Speed	Hi-Speed
HDMI 1	Hi-Speed	SuperSpeed	SuperSpeed
HDMI 2	Hi-Speed	SuperSpeed	SuperSpeed
HDMI 3	Hi-Speed	SuperSpeed	SuperSpeed
VGA	Hi-Speed	SuperSpeed	SuperSpeed
Accessory slot	Hi-Speed	SuperSpeed	SuperSpeed

Troubleshooting

Troubleshooting the display and related SMART products

See Troubleshooting for information on how to resolve a variety of common problems with the display and related SMART products.

Contacting your reseller for additional support

If an issue you're experiencing with the display persists or isn't covered in Troubleshooting, contact your authorized SMART reseller (smarttech.com/where) for support. Your reseller might ask you for the display's serial number. The serial number is on a label located on the left side of the display (pictured).

Tip

Scan the QR code on the label to view the SMART Board MX or MX Pro series interactive display support pages on the SMART website. You can also find the serial number in the settings. Refer to the SMART Board MX (V5) and MX Pro (V5) series interactive displays installation and maintenance guide (smarttech.com/kb/171897) for

more information.

Certification and compliance

Electronic (e-label) information

Regulatory information is available in the display's settings. From the Home screen, tap Settings > About > Regulatory Information.

Federal Communication Commission interference statement

FCC STATEMENT

Suppliers Declaration of Conformity 47 CFR § 2.1077 Compliance Information Unique Identifier: IDX55-2, IDX55-3, IDX55-4, IDX55-5, IDX65-1, IDX65-2, IDX65-3, IDX65-4, IDX65-5, IDX75-1, IDX75-2, IDX75-3, IDX75-4, IDX75-5, IDX86-1, IDX86-2, IDX86-3, IDX86-4, IDX86-5 Responsible Party – U.S. Contact Information SMART Technologies Inc. 2401 4th Ave., 3rd Floor Seattle, WA 98121 compliance@smarttech.com

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.

Note

This equipment has been tested and found to comply with the limits for a Class A digital device, under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution

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

Restriction

Operations in the 5.15-5.25GHz band are restricted to indoor usage only. IEEE 802.11b or 802.11g operation of this product in the USA is firmware limited to channels 1 through 11.

Caution

1. the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
2. the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
3. the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
4. Users should also be advised that high-power radars are allocated as primary users (i.e., priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Radiation exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the antenna of this device and all nearby persons. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Innovation, Science and Economic Development Canada statement

This device complies with RSS-247 of the Innovation, Science and Economic Development Canada 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.

Radiation exposure statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the antenna of this device and all nearby persons. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

EU declaration of conformity

Hereby SMART Technologies ULC declares that the radio equipment type Interactive displays model IDX55-2, IDX55-3, IDX55-4, IDX55-5, IDX65-1, IDX65-2, IDX65-3, IDX65-4, IDX65-5, IDX75-1, IDX75-2, IDX75-3, IDX75-4, IDX75-5, IDX86-1, IDX86-2, IDX86-3, IDX86-4, IDX86-5, and the OPS AM40, AM50, PCM8, PCM11 are in compliance with Directive 2014/53/EU.

Warning

Operation of this equipment in a residential environment this equipment may could cause radio interference. The full text of the EU declaration of conformity is available at the following internet address: smarttech.com/compliance The frequency band and the maximum transmitted power in

EU are listed below:

Transmitting Band (MHz)	Maximum Transmit Power
IDX55-2, IDX55-3, IDX65-1, IDX65-2, IDX65-3, IDX75-1, IDX75-2, IDX75-3, IDX86-1, IDX86-2, IDX86-3	
2402-2483.5	19dBm (EIRP)
5150-5350	23dBm (EIRP)
5470-5350	23dBm (EIRP)
IDX55-4, IDX65-4, IDX65-4, IDX86-4	
13.56	0.0007μW (ERP)
2400-2483.5	20dBm (EIRP)
5150-5350	22dBm (EIRP)
5470-5725	20dBm (EIRP)
5725-5875	14dBm (EIRP)
IDX55-5, IDX65-5, IDX65-5, IDX86-5	
TBD TBD TBD TBD	TBD TBD TBD TBD
TBD	TBD

AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/CY/LV/LI/LT/LU/
HU/MTNL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/UK/HR— 5150MHz-5350MHz is for indoor use only.

Caution: Exposure to Radio Frequency Radiation This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Japan VCCI Class A statement – applicable only to models certified for sale in Japan

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case the user may be required to take corrective actions. Operation in Japan is restricted to 100V AC operation only. This equipment contains specified radio equipment that has been certified to the Technical Regulation Conformity Certification under the Radio Law. The 5.2/5.3 GHz band is restricted to indoor use due to the Radio Law.

Additional Testing and Evaluation for Host Product

The module is limited and complies with the requirements of FCC Part 15.207 and 15.209. According to FCC Part 15 Subpart C section 15.212, the radio elements must have the radio frequency circuitry shielded. However, due to there is no shield for this module, this module is granted as a Limited Modular Approval. A C2PC is required for a new host application. Only Grantees are permitted to make permissive changes. Please contact us for further processing with SMART Technologies Inc. The OEM integrators should follow the following C2PC test plan, based on Module RF report “ENS2207110035W00301R” under FCC ID: QCI-IDNMOD1. For the host product to install this module exactly according to this guide, and did not make any hardware or software modifications to the module or modified the software but does not affect the radio characteristics, the host product will need to evaluate according to FCC Part 15 Subpart C §15.207 and 15.209 for NFC:

- a. Maximum field strength of fundamental.
- b. Radiated spurious emissions from 9 kHz to 1GHz with the other co-located transmitters.

The host product shall be evaluated to ensure continuous compliance for the FCC rules that apply to the host

product. Additional guidance for testing host products is provided in KDB Publication 996369 D02 and D04. This module was tested as a subsystem and its certification does not cover the FCC Part 15 Subpart B (unintentional radiator) rule requirement applicable to the final host. The host will still need to be reassessed for compliance to this portion of the rule requirements. If the host product is not installed according to this guide, the module certification will be invalid and a new grant certification will be required for the host product.

The NFC module is made into a PCBA, and the factory will be connected to the main board of the IFP of the whole machine through wires and supply power to the NFC module. The NFC PCBA is mounted in the internal structure of the whole machine (on the back of the front frame), so that the IFP of the whole machine can get the NFC function.

FCC Statements

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.

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

FCC Radiation Exposure Statement

The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device, for example, USB dongle-like transmitters is forbidden. This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body. If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: QCI-IDNMOD1 Or Contains FCC ID: QCI-SKOWB276P1" When the module is installed inside another device, the user manual of this device must contain below warning statements:

1. 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.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.


The host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product small requires Part 15 Subpart B compliance training with the modular transmitter installed. The end user manual shall include all required regulatory information/warning as shown in this manual, including This product must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

SMART Technologies

- smarttech.com/support
- smarttech.com/contactsupport

- docs.smarttech.com/kb/171896

Documents / Resources

	<p>SMART QCI-IDNMOD1 Smart QX V4 Nfc Module [pdf] User Guide QCI-IDNMOD1 Smart QX V4 Nfc Module, QCI-IDNMOD1, Smart QX V4 Nfc Module, QX V4 Nfc Module, V4 Nfc Module, Nfc Module</p>
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References

- docs.smarttech.com/kb/171775
- [Product Compliance Documents | SMART Technologies](#)
- [Contact Us](#)
- [SMART Support - SMART Technologies](#)
- [Find an Education Reseller | SMART Technologies](#)
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