

## Specifications

# SMART Board® MX086 interactive display

Model SBID-MX086

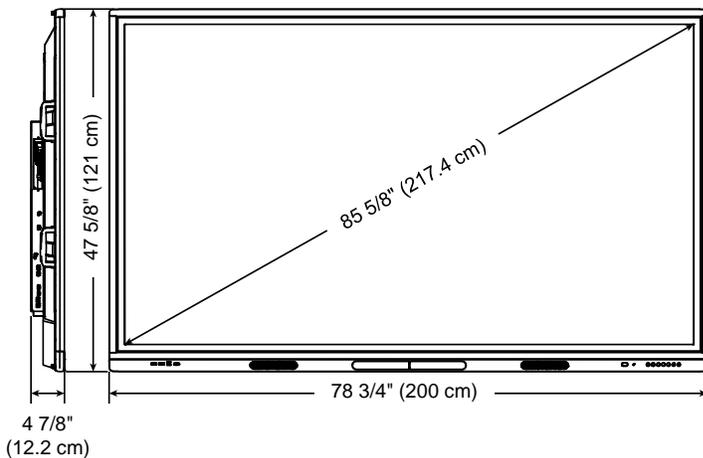
## Overview

Digital whiteboard. Web browser. Screen sharing. Our newest SMART Board® MX series has all the essentials educators need for bringing the devices students love into any learning environment. The SMART Board MX series is a great value for schools that need an interactive display on a budget. Available in 65", 75" and 86" sizes—all in 4K Ultra HD resolution—with SMART Learning Suite included, and a standard three-year warranty.



## Dimensions and weights<sup>1</sup>

### Dimensions



### Weight

173 lb. (78.3 kg)

### Active touch area

76 3/8" × 43 3/4" (194.1 cm × 111.2 cm)

### Active image area

74 5/8" × 42" (189.5 cm × 106.6 cm)

### Shipping dimensions (including pallet)

85 1/4" W × 57 3/8" H × 11 5/8" D  
(216.5 cm × 145.7 cm × 29.5 cm)

### Shipping weight

240 lb. (109 kg)

## Hardware

### Interaction

Touch technology      IR

<sup>1</sup>All dimensions ± 1/8" (0.3 cm). All weights ± 2 lb. (0.9 kg).

**SMART BOARD MX086 INTERACTIVE DISPLAY – MODEL SBID-MX086**

Multitouch capabilities	Up to 20 simultaneous touch, writing, or erase points <sup>23</sup>
Object Awareness™	Behavior adjusts automatically to the tool or object you're using, whether it's a pen, finger or palm.
<b>Display</b>	
Type	LED backlit LCD (A grade)
Aspect ratio	16:9
Resolution	4K UHD
Positioning accuracy	<2 mm
Horizontal frequency (minimum)	31 Hz
Horizontal frequency (maximum)	140 kHz
Vertical frequency (minimum)	59 Hz
Vertical frequency (maximum)	70 Hz
Contrast ratio (typical)	1600:1
Brightness (maximum)	≥350 cd/m <sup>2</sup>
Refresh frequency	60 Hz
Pixel clock (maximum)	600 MHz
Pixel dimensions	0.49 mm
Viewing angle	178°
Response time (typical)	8 ms
Ambient light sensor	Yes
<b>Audio</b>	10 W integrated speakers (×2)
<b>Wireless</b>	802.11 Wi-Fi a/b/g/n/ac 2.4GHz and 5GHz
<b>Included cables and accessories</b>	Country-specific power cable 16' 5" (5 m) USB cable Wall mount bracket kit Pen (×2) Antennas (×2) IR remote control

<sup>2</sup>Requires SMART Product Drivers to be installed. Some applications might not support all touch points.

<sup>3</sup>Chrome OS is limited to 10 simultaneous touches. Pens and eraser are not supported.

**Mounting holes** For a standard VESA® 700 mm × 400 mm mounting plate with M8 screws

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**NOTE**

A wall mount is included with the display.

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**Mounting bracket depth** Minimum clearance depth of 1 1/4" (3 cm) for all components on the back of the interactive display for airflow

## Connectors

### Back

Connector panel:

HDMI® in (with HDCP 2.2 support) (×2)  
 VGA in  
 RJ45 (×2)  
 USB Type-B (for touch applications) (×1)  
 USB 2.0 Type-A (×2)  
 HDMI 1.4 out (HDCP-compliant)<sup>4</sup>  
 S/PDIF out (optical)  
 Stereo 3.5 mm in (for VGA in)  
 Stereo 3.5 mm out  
 OPS slot  
 RS-232 control

### Front

HDMI in (with HDCP 1.4 support)  
 USB Type-B (for touch applications)  
 USB Type-A (×2)

## Applications

**Interactive display** One-year subscription to SMART Learning Suite

## Installation requirements

**Interactive display** See the *SMART Board MX series interactive displays installation and maintenance guide* ([smarttech.com/kb/171257](http://smarttech.com/kb/171257))

### Room computers and guest laptops

General requirements See the [SMART Notebook software release notes](#)

4K UHD Graphics card that supports 3840 × 2160 resolution at 30 Hz and that has 1 GB DDR 5 memory  
 See [Minimum requirements for Ultra High Definition or 4K on your interactive flat panel](#)

### Mini-computers

General requirements See the [SMART Notebook software release notes](#)

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<sup>4</sup>HDCP is always enabled. Content is shown in 480p resolution if the external display doesn't support HDCP.

## Cable requirements

### HDMI

Maximum length: 23' (7 m)

#### NOTES

- Use only certified HDMI cables that have been tested to support the performance standard you require.
- The performance of cables longer than 23' (7 m) is highly dependent on the cable's quality.

### USB

Maximum length: 16' (5 m)

### Important

Using cables that are longer than these maximum lengths can produce unexpected results, such as degraded picture quality or USB connectivity. Refer to *SMART installation standards* ([smarttech.com/kb/171035](http://smarttech.com/kb/171035)) for comprehensive information about cables and extensions for SMART hardware products.

## Storage and operating requirements

**Power requirements** 100V to 240V AC, 50 Hz to 60 Hz

### Standalone interactive display power consumption at 77°F (25°C)

Standby mode ≤0.3 W

Normal operating  
(out-of-box) 250 W

**Operating temperature** 41–95°F (5–35°C)

**Storage temperature** -4–140°F (-20–60°C)

**Humidity** 5–80% relative humidity, non-condensing

## Certification and compliance

**Regulatory certification (Model ID: IDX86-1)** UL (U.S./Canada), FCC, IC, CE, EAC, RCM, NRCS, SABS, CITC, TRA, CCC

### Environmental compliance

European Union REACH, RoHS, Battery, WEEE and Packaging

U.S. CONEG Packaging, California Proposition 65 and Conflict Minerals

## Purchasing information

### Order number

SBID-MX086 SMART Board MX086 interactive display with one-year subscription of SMART Learning Suite

**Optional accessories**

Other See [smarttech.com/accessories](http://smarttech.com/accessories)

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**Warranty**

North America and rest of world (except UK) Three-year limited equipment warranty

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UK Five-year limited equipment warranty

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**Extended warranty**

EWY1-SBID-MX086 SBID-MX086 interactive display one-year warranty extension

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EWY2-SBID-MX086 SBID-MX086 interactive display two-year warranty extension

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