

## Specifications

# SMART Board® MX286 interactive display with iQ

Model SBID-MX286

## Overview

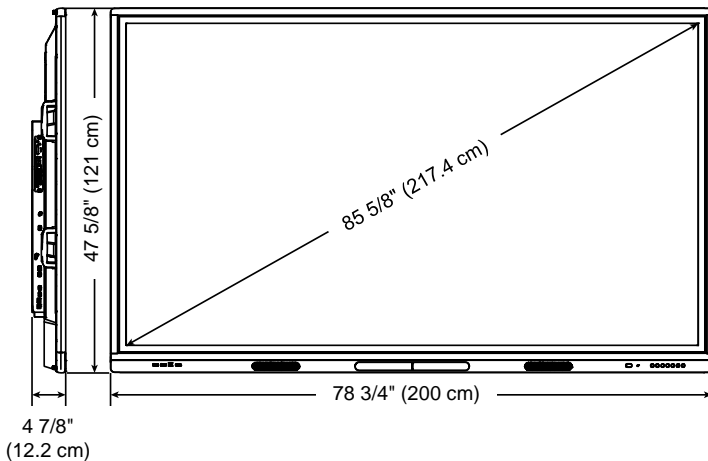
Digital whiteboard. Web browser. Screen sharing. Our newest SMART Board® MX series has all the essentials educators need for bringing the devices students love into any learning environment. The SMART Board MX series is a great value for schools that need an interactive display on a budget. Available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



The SMART Board MX series with iQ technology puts everything you need in one place, available at the touch of a finger. No need for wires and cables. The embedded iQ appliance offers one-touch access to SMART Learning Suite applications, including SMART Notebook® lessons, SMART lab™ activities and SMART amp® software workspaces. You can also access collaboration tools, including a digital whiteboard, built-in web browser and wireless screen sharing (iOS and Android™ mobile devices and a wide variety of computers).

## 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)

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

## Hardware

### Interaction

Touch technology	IR
Multitouch capabilities	Up to 10 simultaneous touch, writing or erase points <sup>2</sup>
Object awareness	Behavior adjusts automatically to the tool or object you're using, whether it's a pen, finger or palm.

### Display

Type	LED backlit LCD (A grade)
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Aspect ratio	16:9
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Resolution	4K UHD
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Positioning accuracy	<2 mm
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Horizontal frequency (minimum)	31 Hz
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Horizontal frequency (maximum)	140 kHz
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Vertical frequency (minimum)	59 Hz
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Vertical frequency (maximum)	70 Hz
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Contrast ratio (typical)	1600:1
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Brightness (maximum)	≥350 cd/m <sup>2</sup>
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Refresh frequency	60 Hz
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Pixel clock (maximum)	600 MHz
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Pixel dimensions	0.49 mm
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Viewing angle	178°
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Response time (typical)	8 ms
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Ambient light sensor	Yes
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<b>Audio</b>	10 W integrated speakers (×2)
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<b>Wireless</b>	802.11 Wi-Fi a/b/g/n/ac 2.4GHz and 5GHz
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<sup>2</sup>Requires SMART Product Drivers to be installed. Some applications might not support all touch points.

<b>Included cables and accessories</b>	iQ appliance Country-specific power cable 16' 5" (5 m) USB cable Wall mount bracket kit Pen (×2) Antennas (×2) IR remote control	
<b>iQ appliance</b>		
Wireless technology	Bluetooth® dual mode (backwards compatible with Bluetooth 4.1 + EDR)	
Capture options	Establish a Bluetooth wireless connection with a supported mobile device (see below) by scanning the interactive display's unique QR code	
Supported languages	French German Italian Japanese Korean Norwegian Simplified Chinese Spanish Swedish Traditional Chinese	
<b>Mounting holes</b>	For a standard VESA® 700 mm × 400 mm mounting plate with M8 screws	
	<b>NOTE</b> A wall mount is included with the display.	
<b>Mounting bracket depth</b>	Minimum clearance depth of 1 1/4" (3 cm) for all components on the back of the interactive display for airflow	
<b>Connectors</b>		
<b>Back</b>	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>3</sup> S/PDIF out (optical) Stereo 3.5 mm in (for VGA in) Stereo 3.5 mm out OPS slot RS-232 control	iQ appliance (AM40): USB 3.0 Type-A (×2) HDMI 1.4 (HDCP-compliant)

<sup>3</sup>HDCP is always enabled. Content is shown in 480p resolution if the external display doesn't support HDCP.

**SMART BOARD MX286 INTERACTIVE DISPLAY WITH IQ – MODEL SBID-MX286**

<b>Front</b>	HDMI in (with HDCP 1.4 support) USB Type-B (for touch applications) USB Type-A (×2)
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## Applications

<b>Interactive display</b>	Apps included in the iQ appliance One-year subscription to SMART Learning Suite
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## Installation requirements

<b>Interactive display</b>	See the <i>SMART Board MX series interactive displays installation and maintenance guide</i> ( <a href="http://smarttech.com/kb/171257">smarttech.com/kb/171257</a> )
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<b>SMART Notebook® Player mobile app</b>	iOS 10 or later operating system software
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**SMART kapp® app**

Apple devices	iOS 9 or later operating system software 50 MB of storage iPhone 4S or later Third-generation iPad or later First-generation iPad mini or later Fifth-generation iPod touch or later
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Android devices	Android 4.4.4 (KitKat) or later operating system 50 MB of storage (internal or SD card) 1024 MB of RAM 720p or better screen resolution Bluetooth 2.1 + EDR 3 megapixel or better rear-facing camera (recommended)
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**SMART kapp viewer**

Mobile	Safari for iOS 9 or later operating system software Chrome™ for Android 39.0.2171.93 or later
Desktop	Internet Explorer® 10 or later Chrome 39.0.2171.95 or later Firefox® 34.0.5 or later Safari 8.0 or later

**Room computers and guest laptops**

General requirements	See the <a href="#">SMART Notebook software release notes</a>
4K UHD	Graphics card that supports 3840 × 2160 resolution at 30 Hz and that has 1 GB DDR 5 memory See <a href="#">Minimum requirements for Ultra High Definition or 4K on your interactive flat panel</a>

**Mini-computers**

General requirements	See the <a href="#">SMART Notebook software release notes</a>
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## Cable requirements

<b>HDMI</b>	Maximum length: 23' (7 m)
	<hr/> <b>NOTES</b> <ul style="list-style-type: none"> <li>• Use only certified HDMI cables that have been tested to support the performance standard you require</li> <li>• The performance of cables longer than 23' (7 m) is highly dependent on the cable's quality</li> </ul> <hr/>
<b>USB</b>	Maximum length: 16' (5 m)
<b>Important</b>	Using cables that are longer than these maximum lengths can produce unexpected results, such as degraded picture quality or USB connectivity. Refer to <i>SMART installation standards</i> ( <a href="http://smarttech.com/kb/171035">smarttech.com/kb/171035</a> ) for comprehensive information about cables and extensions for SMART hardware products.

## Storage and operating requirements

<b>Power requirements</b>	100V to 240V AC, 50 Hz to 60 Hz
<b>Interactive flat panel and iQ appliance power consumption at 77°F (25°C)</b>	
Standby mode	≤0.3 W
Normal operating	265 W
<b>Standalone interactive display power consumption at 77°F (25°C)</b>	
Standby mode	≤0.3 W
Normal operating (out-of-box)	250 W
<b>Operating temperature</b>	41–95°F (5–35°C)
<b>Storage temperature</b>	-4–140°F (-20–60°C)
<b>Humidity</b>	5–80% relative humidity, non-condensing

## Certification and compliance

<b>Regulatory certification (Model ID: IDX86-1)</b>	UL (U.S./Canada), FCC, IC, CE, EAC, RCM, NRCS, SABS, CITC, TRA, CCC
<b>Environmental compliance</b>	
European Union	REACH, RoHS, Battery, WEEE and Packaging
U.S.	CONEG Packaging, California Proposition 65 and Conflict Minerals

## Purchasing information

### Order number

SBID-MX286	SMART Board MX086 interactive display with iQ and one-year subscription of SMART Learning Suite
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### Optional accessories

Other	See <a href="http://smarttech.com/accessories">smarttech.com/accessories</a>
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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-MX286	SBID-MX286 interactive display with iQ one-year warranty extension
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EWY2-SBID-MX286	SBID-MX286 interactive display with iQ two-year warranty extension
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