

## Specifications

# SMART Board® MX286 interactive display with iQ

## Model SBID-MX286

### Overview

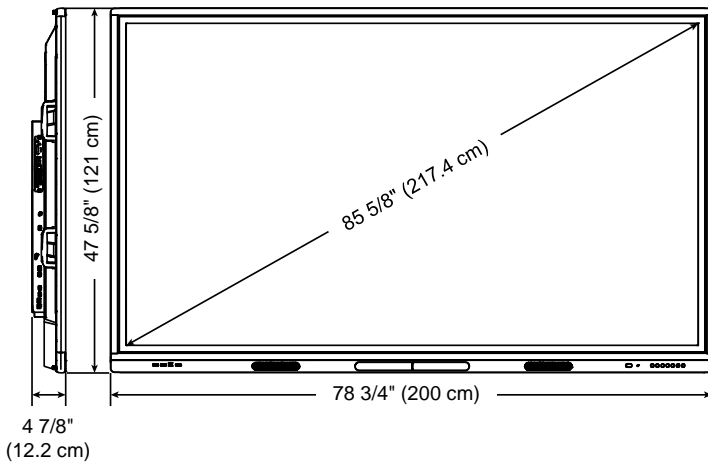
The SMART Board® MX series has all the essentials educators need for bringing the devices students love into any learning environment. This display is great value for schools that need an interactive display on a budget. The 86" 4K Ultra HD resolution display includes SMART Learning Suite and a standard three-year warranty.

The embedded iQ appliance offers one-touch access to SMART Learning Suite applications, including SMART Notebook® lessons and SMART lab™ activities. You can also access collaboration tools, including a digital whiteboard, a web browser, and wireless screen sharing.



### 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)
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

<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 connection with a supported mobile device (see below) by scanning the interactive display's unique QR code
Supported languages	Dutch English French German Italian Korean Norwegian Russian Simplified Chinese Spanish Swedish Traditional Chinese Vietnamese
<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

## Connectors

<b>Back</b>	Connector panel:	iQ appliance (AM40):
	HDMI® in (with HDCP 2.2 support) (×2)	USB 3.0 Type-A (×2)
	VGA in	HDMI 1.4 (HDCP-compliant)
	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	
<b>Front</b>	HDMI in (with HDCP 1.4 support)	
	USB Type-B (for touch applications)	
	USB Type-A (×2)	

## 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> )
<b>SMART Notebook® Player mobile app</b>	iOS 10 or later operating system software
<b>SMART kapp® app</b>	
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
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)

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

**SMART kapp viewer**

Mobile	Safari for iOS 9 or later operating system software Chrome™ for Android 39.0.2171.93 or later
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Desktop	Internet Explorer® 10 or later Chrome 39.0.2171.95 or later Firefox® 34.0.5 or later Safari 8.0 or later
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**Room computers and guest laptops**

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

<b>USB</b>	Maximum length: 16' (5 m)
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<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.
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**Storage and operating requirements**

<b>Power requirements</b>	100V to 240V AC, 50 Hz to 60 Hz
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**Interactive flat panel and IQ appliance power consumption at 77°F (25°C)**

Standby mode	6.5 W
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Normal operating	256 W
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**Standalone interactive display power consumption at 77°F (25°C)**

Standby mode	≤0.3 W
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## SPECIFICATIONS

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

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

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

### 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-MX286 SMART Board MX086 interactive display with IQ and one-year subscription of SMART Learning Suite

### Optional accessories

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

### Warranty

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

### Extended warranty

EWY1-SBID-MX286	SBID-MX286 interactive display with IQ one-year warranty extension
EWY2-SBID-MX286	SBID-MX286 interactive display with IQ two-year warranty extension

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