SMART®

Specifications
SMART Board® MX286 interactive display with iQ
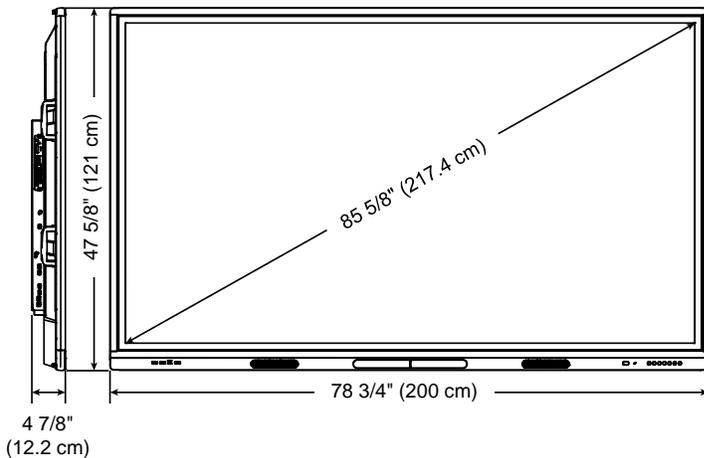## Model SBID-MX286

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[1]

Dimensions

47 5/8" (121 cm)

85 5/8" (217.4 cm)

78 3/4" (200 cm)

4 7/8" (12.2 cm)

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)

[1]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[2]
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)	$\geq$350 cd/m^2
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
Audio	10 W integrated speakers (×2)

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[2]Requires SMART Product Drivers to be installed. Some applications might not support all touch points.

Included cables and accessories	iQ appliance Country-specific power cable 16' 5" (5 m) USB cable Wall mount bracket kit Pen (×2) Antennas (×2) IR remote control
iQ appliance	
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
Mounting holes	For a standard VESA® 700 mm × 400 mm mounting plate with M8 screws
	NOTE A wall mount is included with the display.
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)[3]
	  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)

[3] HDCP is always enabled. Content is shown in 480p resolution if the external display doesn't support HDCP.

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

Applications

| **Interactive display** | Apps included in the iQ appliance |
| | 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) |
| **SMART Notebook®
Player mobile app** | iOS 10 or later operating system software |

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
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)

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 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
Bracket	Optional bracket available

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) 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

Interactive flat panel and iQ appliance power consumption at 77°F (25°C)

Standby mode	≤0.3 W
Maximum operating	265W

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

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 SMART Learning Suite

Optional accessories

Other	See 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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