SMART.®

Specifications

SMART Board® MX286-V2 interactive display with iQ
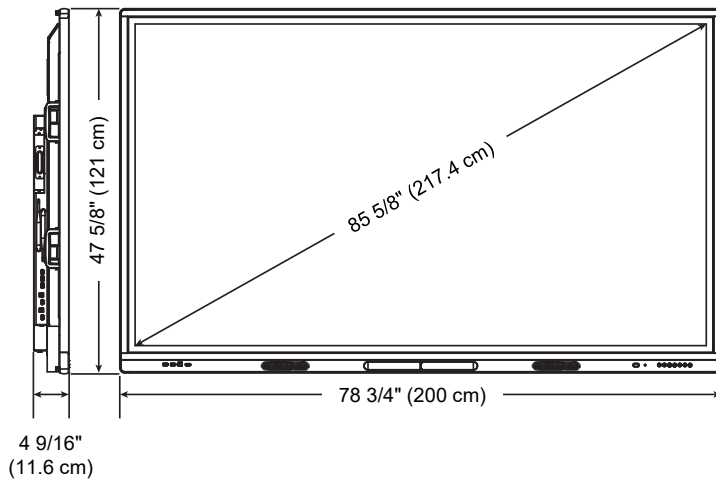**Model SBID-MX286-V2**

Overview

The SMART Board® MX286-V2 interactive display 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 a one-year subscription to SMART Learning Suite and a standard three-year warranty.

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

Dimensions and weights[1]

Dimensions

47 5/8" (121 cm)
85 5/8" (217.4 cm)
78 3/4" (200 cm)
4 9/16" (11.6 cm)

Weight
181 lb. (82.3 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
233 lb. (105.5 kg)

As an ENERGY STAR® certified signage display, the SMART Board MX086-V2 interactive display meets strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and Department of Energy.

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[1]All dimensions ± 1/8" (0.3 cm). All weights ± 2 lb. (0.9 kg).

SPECIFICATIONS
SMART BOARD MX286-V2 INTERACTIVE DISPLAY WITH IQ – MODEL SBID-MX286-V2

Hardware

Interaction

Touch technology	HyPr Touch™ with Advanced IR
Multitouch capabilities	Up to 20 simultaneous touch, writing, or erase points[2][3]
Object Awareness™	Behavior adjusts automatically to the tool or object you're using, whether it's a pen, finger or palm.
Positioning accuracy	<2 mm

Display

Type	LED backlit LCD (A grade)
Aspect ratio	16:9
Resolution	4K UHD (3840 × 2160)
Horizontal frequency	31 Hz–140 kHz
Vertical frequency	59 Hz–70 Hz
Brightness (maximum)	≥400 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	15 W integrated speakers (×2)
Wireless	IEEE 802.11a/b/g/n/ac with 2 × 2 MIMO (both 2.4 and 5 GHz bands)
Included cables and accessories	Country-specific power cable 16' 5" (5 m) USB cable Wall mount bracket kit Pen (×2) Antenna (×2) IR remote control (with two AAA batteries)

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

[3]Chrome OS is limited to 10 simultaneous touches. Pens and eraser are not supported.

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iQ experience

Supported languages	Danish Dutch English Finnish French German Italian Korean Norwegian Portuguese Russian Simplified Chinese Spanish Swedish Traditional Chinese Ukrainian Vietnamese
Mounting holes	For a standard VESA® 700 mm × 400 mm mounting plate with M8 screws
Mounting bracket depth	Minimum clearance depth of 1 1/4" (3 cm) for all components on the back of the interactive display for airflow

Software

Included software	iQ Android-based embedded computing One-year subscription to SMART Learning Suite (including SMART Notebook software) SMART Notebook basic version SMART Ink and SMART Product Drivers

Other software (sold separately)

SMART Remote Management	Cloud-based device management software for remotely maintaining, supporting, controlling, and securing the display and your other devices. Comes installed on the display and can be used as a 30-day trial before activation. See SMART Remote Management for more information.

Connectors

Side connector panel	1	Accessory slot (for 60W OPS devices)
	1	HDMI® 1.4 out with HDCP support[4]
	1	USB 2.0 Type-A (for service use only)
	1	USB 3.0 Type-A (for currently selected input source)
	HDMI 1	
	1	HDMI in with HDCP 2.2 support
	1	USB 3.0 Type-B (for touch)
	HDMI 2	
	1	HDMI in with HDCP 2.2 support
	1	USB 3.0 Type-B (for touch)
Front connector panel	1	USB 2.0 Type-A (for the display)
	1	USB 2.0 Type-A (for currently selected input source)
	HDMI 3	
	1	HDMI in with HDCP 2.2 support
	1	USB 2.0 Type-B (for touch)
Bottom connector panel	1	RS-232
	2	RJ45
	1	S/PDIF out (fixed)
	1	Stereo 3.5 mm out (variable)
	VGA 1	
	1	Stereo 3.5 mm in (for VGA in)
	1	VGA in
	1	USB 3.0 Type-B (for touch)

Installation requirements

Interactive display	See the *SMART Board MX (V2) series interactive displays installation and maintenance guide* (smarttech.com/kb/171555)

> ⓘ **IMPORTANT**
>
> The display needs an internet connection for downloading and installing important updates. Ask the network administrator to confirm that the network has been correctly configured for the iQ experience. For more information about network configuration, see Connecting a SMART display with the iQ experience to a network.

Room computers and guest laptops

General requirements	See SMART Notebook software release notes
4K UHD	Video card that can support 3840 × 2160 resolution at 60 Hz See Minimum requirements for Ultra High Definition or 4K on your interactive flat panel

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[4]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 2.0	USB 2.0 certified Hi-Speed (480 Mbps) support Maximum length: 16' (5 m)
USB 3.0	USB 3.0 certified SuperSpeed (5 Gbps) support Maximum length: 9' (3 m)

> **NOTES**
>
> - SMART supports only installations that use directly connected video and USB cables, AC-powered extenders, or USB extenders purchased from SMART.
> - You might be able to use higher-grade cables that are longer than specified. If you have problems with such a cable or an extender of any type, test the connection with a shorter cable before contacting SMART Support.

Important	Using cables that exceed these maximum lengths can produce unexpected results, such as degraded picture quality or USB connectivity. Refer to *Installation best practices for SMART products* (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	≤0.5 W
Normal operating (out-of-box)	189 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 (Model ID: IDX86-2)

U.S. / Canada	FCC, ISED, UL, CONEG Packaging, Cal Prop 65, Conflict Minerals, Energy Star

EU / EEA / EFTA	CE - LVD, RED, REACH, RoHS, Battery, WEEE, Packaging
EAEU	EAC
Australia / New Zealand	RCM
Taiwan	BSMI, NCC
Vietnam	ICT

Purchasing information

Order number

SBID-MX286-V2	SMART Board MX086-V2 interactive display with iQ and one-year subscription of SMART Learning Suite

Optional accessories

Other	See smarttech.com/accessories

Warranty information

Standard warranty	See smarttech.com/warranty[5]
Extended warranty and other information	See smarttech.com/warranty

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smarttech.com/support
smarttech.com/contactsupport

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[5]Refer to smarttech.com/warranty for specific product and regional entitlements.