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Specifications

SMART Board® MX386 interactive display with iQ and Intel® Compute Card

Model SBID-MX386

Overview



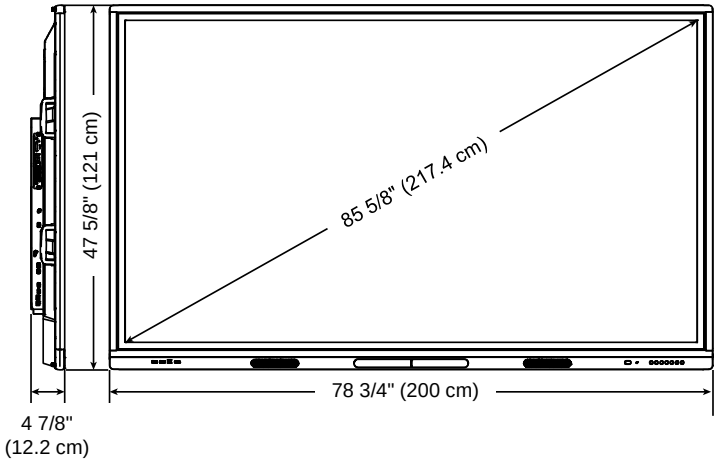
The SMART Board® MX series has all the essentials educators need for bringing the devices students love into any learning environment. This display is great value for schools that need an interactive display on a budget. The 86" 4K Ultra HD resolution display includes SMART Learning Suite and a standard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

Install an Intel Compute Card in the appliance to provide a complete Windows 10 solution at your fingertips. Choose from three compute card options to provide a consistent room-to-room Windows Full HD experience.

Dimensions and weights[1]

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)

[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][3]
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^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)
Wireless	802.11 Wi-Fi a/b/g/n/ac 2.4GHz and 5GHz

[2]Requires 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.

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 connection with a supported mobile device (see below) by scanning the interactive display's unique QR code
Intel Compute Card features	See *iQ appliance with Intel Compute Card for SMART Board interactive displays specifications* (smarttech.com/kb/171263)
Supported languages	Dutch English French German Italian Korean Norwegian Russian Simplified Chinese Spanish Swedish Traditional Chinese Ukrainian Vietnamese
Mounting holes	**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)[4] S/PDIF out (optical) Stereo 3.5 mm in (for VGA in) Stereo 3.5 mm out OPS slot RS-232 control	iQ appliance (AM50): HDMI 1.4 (3840 × 2160) output for external monitor USB 3.0 Type-A (for iQ) USB 3.0 Type-A (for Intel Compute Card) RJ45 Gigabit Ethernet
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)

[4]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
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

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	15 W
Normal operating	265 W
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, ISED, CE, EAC, RCM
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-MX386-PT	SMART Board MX086 display with iQ and Intel Compute Card (with Pentium N4200 processor) + Windows 10 Pro, and SMART Learning Suite
SBID-MX386-I5	SMART Board MX086 display with iQ and Intel Compute Card (with Intel Core i5-7Y57 processor) + Windows 10 Pro, and SMART Learning Suite
SBID-MX386-M3	SMART Board MX086 display with iQ and Intel Compute Card (with Intel Core m3-7Y30 processor) + Windows 10 Pro, 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-MX386	SBID-MX386 interactive display with iQ one-year warranty extension
EWY2-SBID-MX386	SBID-MX386 interactive display with iQ two-year warranty extension

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