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

Dimensions

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.

1All 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

<table>
<thead>
<tr>
<th>Touch technology</th>
<th>HyPr Touch™ with Advanced IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multitouch capabilities</td>
<td>Up to 20 simultaneous touch, writing, or erase points&lt;sup&gt;2, 3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Object Awareness™</td>
<td>Behavior adjusts automatically to the tool or object you’re using, whether it’s a pen, finger or palm.</td>
</tr>
<tr>
<td>Positioning accuracy</td>
<td>&lt;2 mm</td>
</tr>
</tbody>
</table>

#### Display

<table>
<thead>
<tr>
<th>Type</th>
<th>LED backlit LCD (A grade)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Resolution</td>
<td>4K UHD (3840 x 2160)</td>
</tr>
<tr>
<td>Horizontal frequency</td>
<td>31 Hz–140 kHz</td>
</tr>
<tr>
<td>Vertical frequency</td>
<td>59 Hz–70 Hz</td>
</tr>
<tr>
<td>Brightness (maximum)</td>
<td>≥400 cd/m&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Refresh frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Pixel clock (maximum)</td>
<td>600 MHz</td>
</tr>
<tr>
<td>Pixel dimensions</td>
<td>0.49 mm</td>
</tr>
<tr>
<td>Viewing angle</td>
<td>178°</td>
</tr>
<tr>
<td>Response time (typical)</td>
<td>8 ms</td>
</tr>
</tbody>
</table>

#### Ambient light sensor

Yes

#### Audio

15 W integrated speakers (×2)

#### Wireless

IEEE 802.11a/b/g/n/ac with 2 x 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)

#### Mounting holes

For a standard VESA® 700 mm x 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

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<sup>2</sup>Requires the latest version of SMART Product Drivers to be installed. Some applications might not support all touch points.

<sup>3</sup>Chrome OS is limited to 10 simultaneous touches. Pens and eraser are not supported.
iQ experience

iQ experience
iQ experience embedded in the display provides better performance without the need to install a separate appliance

Included apps and features

Customizable Home screen
Whiteboard
SMART Notebook Player
Browser
Screen Share
File and app libraries
Writing and drawing over any input
Freeze screen and screen shade
Automatic software updates

Supported languages

Danish
Dutch
English
Finnish
French
German
Italian
Korean
Norwegian
Portuguese
Russian
Simplified Chinese
Spanish
Swedish
Traditional Chinese
Ukrainian
Vietnamese

Software

Included software
iQ Android-based embedded computing
One-year subscription to SMART Learning Suite (including SMART Notebook software)
SMART Notebook basic version
Subscription to SMART Remote Management for length of SMART Assure warranty term
SMART Ink and SMART Product Drivers
Connectors

**Side connector panel**
1. Accessory slot (for 60W OPS devices)
1. HDMI® 2.0 out with HDCP 2.2 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) and MX (V2) Pro series interactive displays installation and maintenance guide* (smarttech.com/kb/171555)

[^4]: **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](smarttech.com/kb/171555).

**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](smarttech.com/kb/171555)

[^4]: HDCP is always enabled. Content is shown in 480p resolution if the external display doesn't support HDCP.
Cable requirements

<table>
<thead>
<tr>
<th>Connection</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>Maximum length: 23' (7 m)</td>
</tr>
<tr>
<td></td>
<td><strong>NOTES</strong></td>
</tr>
<tr>
<td></td>
<td>• Use only certified HDMI cables that have been tested to support the performance standard you require.</td>
</tr>
<tr>
<td></td>
<td>• The performance of cables longer than 23' (7 m) is highly dependent on the cable’s quality.</td>
</tr>
<tr>
<td>USB 2.0</td>
<td>USB 2.0 certified</td>
</tr>
<tr>
<td></td>
<td>Hi-Speed (480 Mbps) support</td>
</tr>
<tr>
<td></td>
<td>Maximum length: 16’ (5 m)</td>
</tr>
<tr>
<td>USB 3.0</td>
<td>USB 3.0 certified</td>
</tr>
<tr>
<td></td>
<td>SuperSpeed (5 Gbps) support</td>
</tr>
<tr>
<td></td>
<td>Maximum length: 9’ (3 m)</td>
</tr>
<tr>
<td></td>
<td><strong>NOTES</strong></td>
</tr>
<tr>
<td></td>
<td>• SMART supports only installations that use directly connected video and USB cables, AC-powered extenders, or USB extenders purchased from SMART.</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>100V to 240V AC, 50 Hz to 60 Hz</td>
</tr>
<tr>
<td>Standalone interactive display power consumption at 77°F (25°C)</td>
<td></td>
</tr>
<tr>
<td>Standby mode</td>
<td>≤0.5 W</td>
</tr>
<tr>
<td>Normal operating (out-of-box)</td>
<td>189 W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>41–95°F (5–35°C)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-4–140°F (-20–60°C)</td>
</tr>
<tr>
<td>Humidity</td>
<td>5–80% relative humidity, non-condensing</td>
</tr>
</tbody>
</table>

Certification and compliance (Model ID: IDX86-2)

**U.S. / Canada**
FCC, ISED, UL, CONEG Packaging, Cal Prop 65, Conflict Minerals, Energy Star
SPECIFICATIONS
SMART BOARD MX286-V2 INTERACTIVE DISPLAY WITH iQ – MODEL SBID-MX286-V2

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

SMART Assure warranty
Includes advanced hardware replacement and access to onsite support. Terms and conditions vary by region. Contact your local reseller or distributor for information and visit smarttech.com/warranty.