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 weights¹

Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 7/8&quot; (12.2 cm)</td>
<td>78 3/4&quot; (200 cm)</td>
</tr>
<tr>
<td>47 5/8&quot; (121 cm)</td>
<td>85 5/8&quot; (217.4 cm)</td>
</tr>
</tbody>
</table>

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)

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

### Interaction

<table>
<thead>
<tr>
<th>Touch technology</th>
<th>IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multitouch capabilities</td>
<td>Up to 10 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>
</tbody>
</table>

### 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 |

### Audio

| 10 W integrated speakers | ×2 |

### Wireless

| 802.11 Wi-Fi a/b/g/n/ac 2.4GHz and 5GHz |

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<sup>2</sup>Requires 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.
## 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

## Supported languages
- Dutch
- English
- French
- German
- Italian
- Korean
- Norwegian
- Russian
- Simplified Chinese
- Spanish
- Swedish
- Traditional Chinese
- Ukrainian
- Vietnamese

## 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) 4
  - S/PDIF out (optical)
  - Stereo 3.5 mm in (for VGA in)
  - Stereo 3.5 mm out
  - OPS slot
  - RS-232 control

**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)

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4HDCP is always enabled. Content is shown in 480p resolution if the external display doesn’t support HDCP.
**SMART kapp viewer**

<table>
<thead>
<tr>
<th>Device</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile</td>
<td>Safari for iOS 9 or later operating system software Chrome™* for Android 39.0.2171.93 or later</td>
</tr>
<tr>
<td>Desktop</td>
<td>Internet Explorer® 10 or later Chrome 39.0.2171.95 or later Firefox® 34.0.5 or later Safari 8.0 or later</td>
</tr>
</tbody>
</table>

**Room computers and guest laptops**

<table>
<thead>
<tr>
<th>Requirement</th>
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</tr>
</thead>
<tbody>
<tr>
<td>General requirements</td>
<td>See the SMART Notebook software release notes</td>
</tr>
<tr>
<td>4K UHD</td>
<td>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</td>
</tr>
</tbody>
</table>

**Mini-computers**

<table>
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**Cable requirements**

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Maximum Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>23' (7 m)</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
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<th>Cable Type</th>
<th>Maximum Length</th>
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<tr>
<td>USB</td>
<td>16' (5 m)</td>
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</table>

**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**

<table>
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<tbody>
<tr>
<td><strong>Power requirements</strong></td>
<td>100V to 240V AC, 50 Hz to 60 Hz</td>
</tr>
<tr>
<td><strong>Interactive flat panel and iQ appliance power consumption at 77°F (25°C)</strong></td>
<td></td>
</tr>
<tr>
<td>Standby mode</td>
<td>6.5 W</td>
</tr>
<tr>
<td>Normal operating</td>
<td>256 W</td>
</tr>
<tr>
<td><strong>Standalone interactive display power consumption at 77°F (25°C)</strong></td>
<td></td>
</tr>
<tr>
<td>Standby mode</td>
<td>≤0.3 W</td>
</tr>
</tbody>
</table>
SPECIFICATIONS
SMART BOARD MX286 INTERACTIVE DISPLAY WITH IQ – MODEL SBID-MX286

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, CCC

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

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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