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

<table>
<thead>
<tr>
<th>Weight</th>
<th>173 lb. (78.3 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active touch area</strong></td>
<td>76 3/8&quot; x 43 3/4&quot; (194.1 cm x 111.2 cm)</td>
</tr>
<tr>
<td><strong>Active image area</strong></td>
<td>74 5/8&quot; x 42&quot; (189.5 cm x 106.6 cm)</td>
</tr>
<tr>
<td><strong>Shipping dimensions (including pallet)</strong></td>
<td>85 1/4&quot; W x 57 3/8&quot; H x 11 5/8&quot; D (216.5 cm x 145.7 cm x 29.5 cm)</td>
</tr>
<tr>
<td><strong>Shipping weight</strong></td>
<td>240 lb. (109 kg)</td>
</tr>
</tbody>
</table>

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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$^2$</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

<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</td>
</tr>
<tr>
<td>Positioning accuracy</td>
<td>$&lt;2$ mm</td>
</tr>
<tr>
<td>Horizontal frequency (minimum)</td>
<td>31 Hz</td>
</tr>
<tr>
<td>Horizontal frequency (maximum)</td>
<td>140 kHz</td>
</tr>
<tr>
<td>Vertical frequency (minimum)</td>
<td>59 Hz</td>
</tr>
<tr>
<td>Vertical frequency (maximum)</td>
<td>70 Hz</td>
</tr>
<tr>
<td>Contrast ratio (typical)</td>
<td>1600:1</td>
</tr>
<tr>
<td>Brightness (maximum)</td>
<td>$\geq350$ cd/m$^2$</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>
<tr>
<td>Ambient light sensor</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Audio

| 10 W integrated speakers ($\times2$) |

### Wireless

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

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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)

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\(^3\)HDCP is always enabled. Content is shown in 480p resolution if the external display doesn’t support HDCP.
## Specifications

### Smart Board MX286 Interactive Display with IQ – Model SBID-MX286

#### 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

<table>
<thead>
<tr>
<th>Interactive display</th>
<th>See the SMART Board MX series interactive displays installation and maintenance guide (smarttech.com/kb/171257)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMART Notebook® Player mobile app</td>
<td>iOS 10 or later operating system software</td>
</tr>
</tbody>
</table>
| 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

<table>
<thead>
<tr>
<th>General requirements</th>
<th>See the SMART Notebook software release notes</th>
</tr>
</thead>
</table>
| 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

<table>
<thead>
<tr>
<th>General requirements</th>
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</table>
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)**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power Consumption (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby mode</td>
<td>≤0.3 W</td>
</tr>
<tr>
<td>Normal operating</td>
<td>265 W</td>
</tr>
</tbody>
</table>

**Standalone interactive display power consumption at 77°F (25°C)**

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<thead>
<tr>
<th>Mode</th>
<th>Power Consumption (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby mode</td>
<td>≤0.3 W</td>
</tr>
<tr>
<td>Normal operating (out-of-box)</td>
<td>250 W</td>
</tr>
</tbody>
</table>

**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
## Specifications

**SMART BOARD MX286 Interactive Display with iQ — Model SBID-MX286**

### 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 |