

## Specifications

# SMART Board® 7086 display with SMART Learning Suite

Model SBID-7086-V2

## Overview

The SMART Board® 7086 interactive display combines a premium touch experience with the power of SMART Learning Suite, including SMART Notebook® software.

The 86" 4K ultra-high-definition LED display provides optimal image clarity and wide viewing angles. With the Pen ID™ feature, you can assign different appearances to the four pens and write or draw over any application in digital ink.

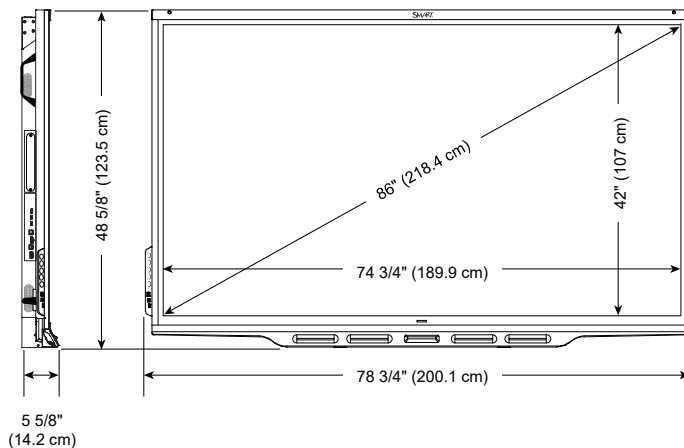
Object Awareness™ allows you to perform mouse functions with your finger, write in digital ink with the pen, and erase with your palm or eraser—all without switching tools or modes. You can use a variety of gestures in applications, and four users can write or draw at the same time.

See [education.smarttech.com](http://education.smarttech.com) for more information.



## Dimensions and weights<sup>1</sup>

### Dimensions



### Weight

201 lb. (91 kg)

### Shipping dimensions (including pallet)

86 1/2" × 60" × 14"  
(220 cm × 163 cm × 35.5 cm)

### Shipping weight

258 lb. (117 kg)



As an ENERGY STAR® certified signage display, the SMART Board 7086 interactive display meets strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and Department of Energy.

<sup>1</sup>All dimensions ± 1/8" (0.3 cm). All weights ± 2 lb. (0.9 kg).

## Hardware

### Interaction

|                         |                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Touch technology        | HyPr Touch™ (Hybrid Precision Touch) proprietary hybrid system, which greatly improves upon its InGlass™ core by optimizing both touch and pen performance, resulting in virtually no lag and zero contact detect height |
| Multitouch capabilities | Up to 16 simultaneous interaction points (combination of 10 finger touch points, four pen touch points and two eraser touch points) <sup>2</sup>                                                                         |
| Object Awareness        | Behavior adjusts automatically to the tool or object you're using, whether it's a pen, finger, eraser, or palm.                                                                                                          |
| Pen ID                  | Four people can write independently and simultaneously, using different colored ink.                                                                                                                                     |

### Display

|                                  |                               |
|----------------------------------|-------------------------------|
| Type                             | LCD with LED back light       |
| Aspect ratio                     | 16:9                          |
| Optimal resolution (HDMI inputs) | 4K UHD (3840 × 2160) at 60 Hz |
| Horizontal frequency (typical)   | 135 kHz                       |
| Vertical frequency (typical)     | 60 Hz                         |
| Contrast ratio (typical)         | 5000:1                        |
| Brightness (maximum)             | 360 cd/m <sup>2</sup>         |
| Pixel dimensions                 | 0.429 mm × 0.429 mm           |
| Viewing angle                    | 178°                          |
| Response time (typical)          | 8 ms                          |

|                           |                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>100BASE-T Ethernet</b> | Two external ports for a four-port Fast Ethernet switched network connecting the interactive display and the OPS module to an external network and an external device, such as a computer |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                 |                                                                        |
|-----------------|------------------------------------------------------------------------|
| <b>Wireless</b> | Wi-Fi and Bluetooth® disabled on initial setup and cannot be reenabled |
|-----------------|------------------------------------------------------------------------|

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| <b>Occupancy sensor</b> | Sensor that reduces startup time and power consumption during inactivity |
|-------------------------|--------------------------------------------------------------------------|

|              |                               |
|--------------|-------------------------------|
| <b>Audio</b> | 10 W integrated speakers (×2) |
|--------------|-------------------------------|

|                    |         |
|--------------------|---------|
| <b>Noise level</b> | <32 dBA |
|--------------------|---------|

|                                        |                                                                 |
|----------------------------------------|-----------------------------------------------------------------|
| <b>Included cables and accessories</b> | Country-specific power cable<br>USB cable<br>Pen (×4)<br>Eraser |
|----------------------------------------|-----------------------------------------------------------------|

<sup>2</sup>Only up to 10 touch points and no pen or eraser support on Chrome OS™ operating system

|                               |                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mounting holes</b>         | For a standard VESA 600 mm × 400 mm mounting plate<br>Lower mounting holes 17 1/8" (43.4 cm) from the bottom of the interactive display |
| <b>Mounting bracket depth</b> | Minimum depth of 2" (5.1 cm) for all components on the back of the interactive display for airflow                                      |

## Connectors

|                          |                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Side</b>              | OPS slot (for standard OPS devices)<br>HDMI 2.0 out<br>USB 2.0 Type-A<br>USB 3.0 Type-A<br>“HDMI 1” input connectors<br>Video/audio: HDMI 2.0 in with HDCP 1.4 and HDCP 2.2 support<br>Touch: USB 3.0 Type-B<br>“HDMI 2” input connectors<br>Video/audio: HDMI 2.0 in with HDCP 1.4 and HDCP 2.2 support<br>Touch: USB 3.0 Type-B |
| <b>Bottom</b>            | RJ45 (×2)<br>S/PDIF out<br>Stereo 3.5 mm out<br>“VGA” input connectors<br>Video: VGA in<br>Audio: Stereo 3.5 mm in<br>Touch: USB 3.0 Type-B<br>AC power in<br>AC power out<br>RS-232 in<br>RS-232 out                                                                                                                             |
| <b>Convenience panel</b> | “HDMI 3” input connectors<br>Video/audio: HDMI 2.0 in with HDCP 1.4 and HDCP 2.2 support<br>Touch: USB 3.0 Type-B<br>USB 3.0 Type-A (×2)                                                                                                                                                                                          |

## Installation requirements

|                                         |                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interactive display</b>              | See the <i>SMART Board 7000 and 7000 Pro series interactive displays installation and maintenance guide</i> ( <a href="https://smarttech.com/kb/171164">smarttech.com/kb/171164</a> )                 |
| <b>Room computers and guest laptops</b> |                                                                                                                                                                                                       |
| General requirements                    | See <a href="#">SMART Notebook software release notes</a>                                                                                                                                             |
| 4K UHD                                  | Video card that can support 3840 × 2160 resolution at 60 Hz and that has 1 GB DDR 5 memory<br>See <a href="#">Minimum requirements for Ultra High Definition or 4K on your interactive flat panel</a> |

**Mini-computers**

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| General requirements | See <a href="#">SMART Notebook software release notes</a> |
| Dimensions           | Smaller than 10" × 10" × 2" (25.4 cm × 25.4 cm × 5.1 cm)  |
| Weight               | Less than 10 lb. (4.5 kg)                                 |
| Mounting             | VESA 75 mm × 75 mm or 100 mm × 100 mm mounting pattern    |

**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 a 9' (3 m) direct connection or a 16' (5 m) connection that includes an AC-powered active USB extender.
- You might be able to use higher-grade cables that are longer than 9' (3 m). If you have problems with such a cable or an extender of any type, test the connection with a 9' (3 m) or 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](http://smarttech.com/kb/171035)) for comprehensive information about cables and extensions for SMART hardware products.

**Storage and operating requirements**

|                           |                                 |
|---------------------------|---------------------------------|
| <b>Power requirements</b> | 100V to 240V AC, 50 Hz to 60 Hz |
|---------------------------|---------------------------------|

**Power consumption at 77°F (25°C)**

|                  |                                                   |
|------------------|---------------------------------------------------|
| Standby mode     | <1 W<br><2 W with full network capability (wired) |
| Normal operating | 160 W                                             |

|                              |                                         |
|------------------------------|-----------------------------------------|
| <b>Operating temperature</b> | 41–95°F (5–35°C)                        |
| <b>Storage temperature</b>   | -4–140°F (-20–60°C)                     |
| <b>Humidity</b>              | 5–80% relative humidity, non-condensing |

## Certification and compliance

|                                 |                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------|
| <b>Regulatory certification</b> | EU RED and LV Directives, ISSED, FCC, cUL, UL, CITIC, EAC, MIC, VCCI, RCM, SIRIM, TRA |
| <b>Regulatory model</b>         | ID7086-2                                                                              |
| <b>Environmental compliance</b> |                                                                                       |
| European Union                  | REACH, RoHS, Battery Directive, Packaging Directive, POP                              |
| U.S.                            | CONEG Packaging, California Prop 65                                                   |

## Purchasing information

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| <b>Order number</b>         |                                                                                   |
| SBID-7086-V2                | SMART Board 7086 display with SMART Learning Suite                                |
| <b>Optional accessories</b> |                                                                                   |
| UGK-PCM8                    | SMART OPS PC module (PCM8 series) for SMART Board interactive displays            |
| Other                       | See <a href="https://www.smarttech.com/accessories">smarttech.com/accessories</a> |
| <b>Warranty</b>             | Three-year limited equipment warranty                                             |
| <b>Extended warranty</b>    |                                                                                   |
| EWY1-SBID-7086              | One-year warranty extension                                                       |
| EWY2-SBID-7086              | Two-year warranty extension                                                       |

smarttech.com/support  
smarttech.com/contactsupport

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