

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.

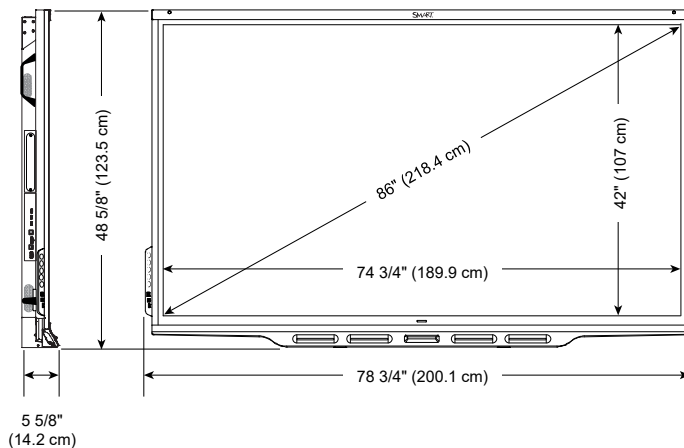
Object Awareness™ allows you to perform mouse functions with your finger, write in digital ink with the pen, and erase with your palm or eraser—all without switching tools or modes. You can use a variety of gestures in applications, and four users can write or draw at the same time.

See education.smarttech.com for more information.



Dimensions and weights¹

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.

¹All 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) ²
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 ²
Pixel dimensions	0.429 mm × 0.429 mm
Viewing angle	178°
Response time (typical)	8 ms

100BASE-T Ethernet	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
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Wireless	Wi-Fi and Bluetooth® disabled on initial setup and cannot be reenabled
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Occupancy sensor	Sensor that reduces startup time and power consumption during inactivity
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Audio	10 W integrated speakers (×2)
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Noise level	<32 dBA
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Included cables and accessories	Country-specific power cable USB cable Pen (×4) Eraser
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²Only up to 10 touch points and no pen or eraser support on Chrome OS™ operating system

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

Connectors

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

Installation requirements

Interactive display	See the <i>SMART Board 7000 and 7000 Pro series interactive displays installation and maintenance guide</i> (smarttech.com/kb/171164)
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 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 SMART Notebook software release notes
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) 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
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Power consumption at 77°F (25°C)

Standby mode	<1 W <2 W with full network capability (wired)
Normal operating	160 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	EU RED and LV Directives, ISSED, FCC, cUL, UL, CITIC, EAC, MIC, VCCI, RCM, SIRIM, TRA
Regulatory model	ID7086-2
Environmental compliance	
European Union	REACH, RoHS, Battery Directive, Packaging Directive, POP
U.S.	CONEG Packaging, California Prop 65

Purchasing information

Order number	
SBID-7086-V2	SMART Board 7086 display with SMART Learning Suite
Optional accessories	
UGK-PCM8	SMART OPS PC module (PCM8 series) for SMART Board interactive displays
Other	See smarttech.com/accessories
Warranty	Three-year limited equipment warranty
Extended warranty	
EWY1-SBID-7086	One-year warranty extension
EWY2-SBID-7086	Two-year warranty extension

smarttech.com/support
smarttech.com/contactsupport

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