

Specifications

SMART Hub SE240 with SMART Board™ SB680i2

Model SB680i2-SE240

Physical Specifications

SMART Board™ 680 Interactive Whiteboard

Size 65 1/4" W × 49 1/2" H × 5 1/8" D
(165.7 cm × 125.7 cm × 13 cm)

Active Screen Area 61 5/8" W × 46 1/8" H
(156.5 cm × 117.2 cm)
77" (195.6 cm) diagonal

Weight 30 lb. (13.6 kg)

Shipping Size 73 1/2" W × 54" H × 5 1/2" D
(186.7 cm × 137.2 cm × 14 cm)

Shipping Weight 45 lb. (20.4 kg)

Unifi™ 45 Projector System

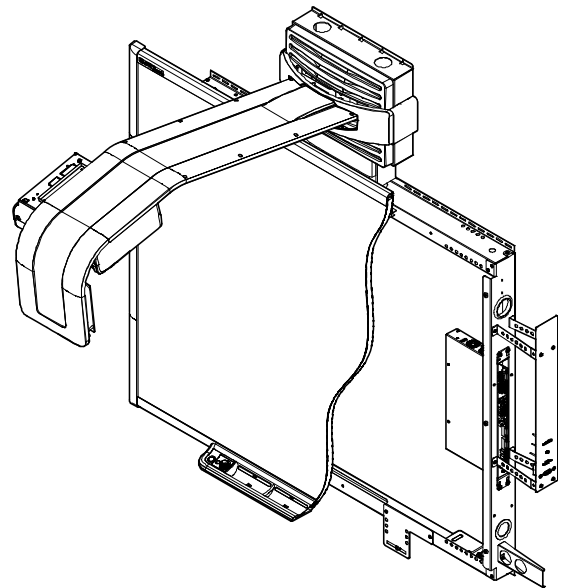
Size 18 1/2" W × 15 1/2" H × 47 1/4" D
(47 cm × 39.4 cm × 120 cm)

Remote Control 1 3/4" W × 1 1/4" H × 4 1/4" D
(4.4 cm × 3.2 cm × 10.8 cm)

Weight 32 lb. (14.5 kg)

Shipping Size 53 1/8" W × 14 3/4" H × 14 1/8" D
(134.9 cm × 37.5 cm × 35.9 cm)

Projector Box 17 1/2" W × 14 1/2" H × 10 3/4" D
(44.5 cm × 36.8 cm × 27.3 cm)



All dimensions +/- 1/8" (0.3 cm). All weights +/- 2 lb. (0.9 kg)

Shipping Weight	51 lb. 8 oz. (23.4 kg)
SMART Hub SE240	
Size	15 3/4" W × 1 3/4" H × 8 1/4" D (40 cm × 4.4 cm × 21 cm)
Weight	5 lb. 8 oz. (2.5 kg)
Shipping Size	18" W × 2 1/4" H × 11" D (45.7 cm × 5.7 cm × 27.9 cm)
Shipping Weight	9 lb. (4.1 kg)
Wall Mount Frame	
Size	55 3/4" W × 65 3/8" H × 4 1/8" D (141.6 cm × 166.1 cm × 10.6 cm)
Weight	30 lb. (13.6 kg)
Shipping Size	17" W × 49" H × 6 1/2" D (43.2 cm × 124.5 cm × 16.5 cm)
Shipping Weight	40 lb. (18.1 kg)

Standard Features

System Features

Mounting	Mount the SMART Hub SE240 to the inside of the wall mount frame behind the SMART Board 680 interactive whiteboard, with access to VGA and audio inputs, a USB port and the reset button.
User Connections	<p>You have easy access to the connections you use most frequently at the side of the wall mount frame:</p> <ul style="list-style-type: none"> • hub reset • one USB A receptacle • one USB B receptacle • one 3.5 mm stereo jack connection • one DB15F connection
Cables	The SMART Board 680i2 interactive whiteboard system includes the cables you need to connect the Unifi 45 projector to the SMART Hub.
Control Module Features	<ul style="list-style-type: none"> • Power button with an illuminated status ring that turns the system on or off • Menu button that shows and hides the SMART Hub SE240's on-screen interface • Volume control that adjusts the optional audio system's volume
Installation Instructions	The installation instructions for the SMART Board 680 interactive whiteboard, Unifi 45 projector, SMART Hub SE240 and the wall mount frame are included with the wall mount frame.

Total Weight	The combined weight of the wall mount and interactive whiteboard system is approximately 97 1/2 lb. (44.2 kg). Check your local building codes to ensure that your wall can support this weight.
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Interactive Whiteboard Features

Pen Tray	Optical sensors in the pen tray detect when you lift a pen or the eraser from the tray. LED lights show the active tool.
Pens and Eraser	A rectangular eraser and black, blue, red and green pens
Resolution	Touch resolution is approximately 4000 × 4000.
Screen Surface	The hard-coated surface is tear proof, optimized for projection, compatible with dry-erase markers and easily cleaned with whiteboard cleaner.
Digitizing Technology	Resistive technology
Frame Finish	Two-tone gray (approximates Pantone® Charcoal Gray 18-0601 TPX) and Ultrasonic Chrome (approximates metallic Pantone 877C)
Wall Mount Bracket	32" (81.3 cm) wide to support a wall-mounted interactive whiteboard
Theft Prevention	The SMART Board 680 interactive whiteboard features a pen tray locking feature and a Kensington® security slot on the pen tray.
Certifications and Compliance	CSA (U.S./Canada), CE, FCC, China EIP, RoHS (Europe), WEEE, VCCI (Japan), C-Tick (Australia)
Warranty	Two-year limited equipment warranty or a five-year limited equipment warranty upon registration. See warranty documents for details.

Unifi 45 Projector System Features

System Components	TDP-SB20 projector engine, boom mount with a limit strap (including a controlled-collapse feature), control module, remote control and all necessary input cables from the SMART Hub SE240 to the projector
Image Adjustment	Includes a focus lever and keystone correction
Display Type	True XGA 1024 × 768 projector
Display Technology	The projection engine uses DLP® technology by Texas Instruments™, providing brilliant color performance quality with Bright, Standard and True Color modes.
Brightness	Estimated at 2000 lumens (typical) at a CCT of 6500 K by the IEC method
Lamp Life	2000 hours (High mode) or 3000 hours (Standard mode)
Aspect Ratio	4:3 native, with support for 16:9, 16:10 and 4:5 ratios
Contrast Ratio	2000:1

Video System Compatibility	<ul style="list-style-type: none"> • NTSC 3.58, NTSC 4.43 • PAL, PAL60, PAL-N, PAL-M • SECAM
Video Interface Compatibility	Composite, S-video, and VESA® RGB, with additional interface support for Component YPbPr and Component YCbCR inputs with the proper adapters (not included)
Video Format Compatibility	4:3 native aspect ratio XGA projector resolution. With scaling, VGA, SVGA, SXGA, QuadVGA, SXGA+ and UXGA formats are supported.
Synchronization	Auto image synchronization (auto tracking, frequency, position adjustment, source detect, phase detect)
Projector Noise	33 dBA (High mode) or 28 dBA (Standard mode)
Power Requirements	100V–240V AC, at 50 Hz–60 Hz
Power Consumption	470W to 504W maximum, 5W (estimated) in Standby mode
Power Switch	Master power control switch
Power Cable	<ul style="list-style-type: none"> • One 14' 9" (4.5 m) power cable • One DB-44 to DB-9 (x4) RS-422 to RS-232 cable
External Control	The RS-232 connector is configured to accept control codes from a room control system.
Remote Control	Provides an alternate method of controlling the Unifi 45 projector settings
Theft Protection	The Unifi 45 projector system features a safety tether on the projector support, optional security screws on the projector plate and an optional padlocked ring to safeguard the adjustment knob. The projector won't function when it's removed from the system because the projector is designed to operate only when it's attached to the boom.
Health and Safety	Two people are required to safely assemble the wall mount frame and install the interactive whiteboard system. A safety tether and limit strap are included.
Certifications and Compliance	CSA (U.S./Canada), CB, CE, FCC, China EIP, RoHS (Europe), WEEE, VCCI (Japan), C-Tick (Australia)
Warranty	The Unifi 45 projector has a three-year limited equipment warranty. The Unifi 45 projector lamp has a 500 hour/90 day warranty. See warranty documents for details.

SMART Hub SE240 Features

Software	<ul style="list-style-type: none"> • Whiteboard for presenting information, writing notes and brainstorming using your connected SMART Board interactive whiteboard • Native control of an attached computer without installing additional software • Computer and video source annotation without installing additional software
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- Input switching available from the on-screen Welcome Center
- Network features, including SNMP
- Room control support through RS-232 or TELNET

NOTES

- To use SMART Bridgit™ software on the SMART Hub SE240, you need to purchase and install a SMART Bridgit Server or purchase a subscription for the SMART Bridgit software service.
- You can connect a computer with SMART Notebook™ software 9.7 SP1 or later to the SMART Hub SE240 and use the digital ink features of the software. The SMART Hub SE240 doesn't support connections to computers with earlier versions of SMART Notebook.

Certifications and Compliance	CE, FCC, China EIP, RoHS (Europe)
Warranty	Two-year limited equipment warranty. See warranty documents for details.
Casing	Black powder-coated steel sheet
Cooling System	High efficiency cooling system with low system acoustic noise level at room temperature: <ul style="list-style-type: none"> • two fans with low system acoustic noise level (<30 dB at 5 m under nominal operating conditions) • temperature control circuits with adaptive voltage control fan speed
Mounting Options	Includes hardware for mounting the SMART Hub SE240 to the wall mount frame
Power Requirements	<ul style="list-style-type: none"> • 100V–240V AC 1.5A • 12V DC 5A
Power Consumption	<ul style="list-style-type: none"> • 15 W to maximum 24 W
Power Connectors and Status Indicators	<ul style="list-style-type: none"> • one DC power connector • one reset button • one LED indicator
Input/Output Connections	<p>SMART Board interactive product connectors:</p> <ul style="list-style-type: none"> • one USB A receptacle • one single-link DVI-I connector (analog and digital) <p>Computer input connectors:</p> <ul style="list-style-type: none"> • two USB B receptacles • two single-link DVI-I connectors (analog and digital) • two 3.5 mm stereo jack connectors <p>Video source input connectors:</p> <ul style="list-style-type: none"> • one S-video connector • one RCA composite video jack • two pairs of RCA stereo audio jack

Peripheral connectors:

- four USB A receptacles in addition to the one provided for the SMART Board interactive whiteboard connection
- two RS-232 connectors (one male, one female)

Network connector:

- one RJ45 (10BASE-T) jack

Audio output connectors:

- one pair of RCA stereo audio jacks

Input Signal

Analog RGB

- up to 170 MHz
- input levels: RGB (with sync) 1.0 Vp-p, RGB (without sync) 0.7 Vp-p, nominal impedance 75 ohm
- sync type (with TTL input level): sync-on-green (bi-level), composite (bi-level), separate H and V

Analog video

- signal formats: Composite video, S-video (Y/C)
- input levels:
 - Composite video 1.0 Vp-p (with sync)
 - S-video luma (Y) 1.1 Vp-p (with sync); S-video chroma (C) 286 mVp-p; nominal impedance 75 ohm

Video System Compatibility

- NTSC 3.58, NTSC 4.43
- PAL, PAL-60, PAL-B, PAL-D, PAL-G, PAL-H, PAL-I, PAL-M, PAL-N
- SECAM-I, SECAM-B, SECAM-D, SECAM-G, SECAM-K1, SECAM-L

Digital Video Compatibility

- SDTV: 480i, 576i
- EDTV: 480p, 576p
- HDTV: 720p, 1080i, 1080p (output only)

**Wall Mount Frame
Features**

Mounting Hardware

Includes hardware for mounting the wall mount frame on solid walls made of brick, cinder block or concrete, on metal stud and on wood framed walls.

Input/Output
Connections

Provide convenient user connections for a guest laptop or a USB storage device.

- USB A
- USB B
- 3.5 mm audio connector
- VGA

Casing

Dark gray powder-coated steel sheet

Certifications and
Compliance

CSA (U.S./Canada), CE, FCC, China EIP, RoHS (Europe), WEEE

Warranty

Two-year limited equipment warranty. See warranty documents for details.

SMART Order Number

SB680i2-SE240 SMART Board 680i2 interactive whiteboard system with the SMART Hub SE240

Optional Accessories

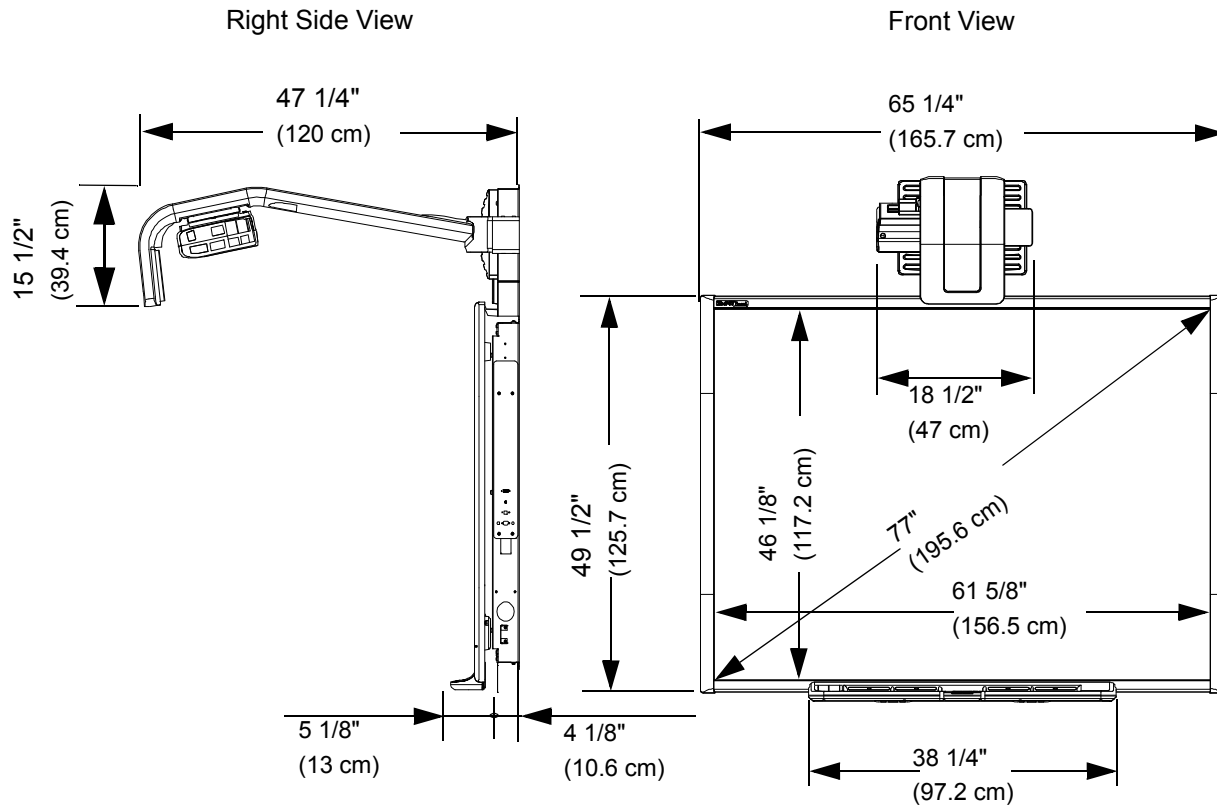
SBA SMART USB Speakers

**Storage and Operating
Specifications**

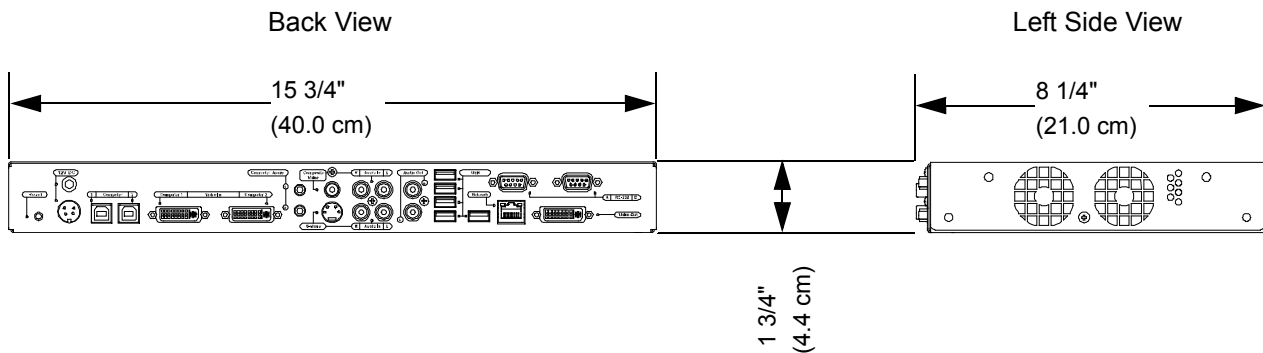
Storage	122°F (50°C) maximum storage temperature -40°F (-40°C) minimum storage temperature
Operating	From 0' to 6000' (0 m to 1829 m) 41°F to 95°F (5°C to 35°C) From 6000' to 9800' (1829 m to 2987 m) 41°F to 86°F (5°C to 30°C)

Physical Dimensions

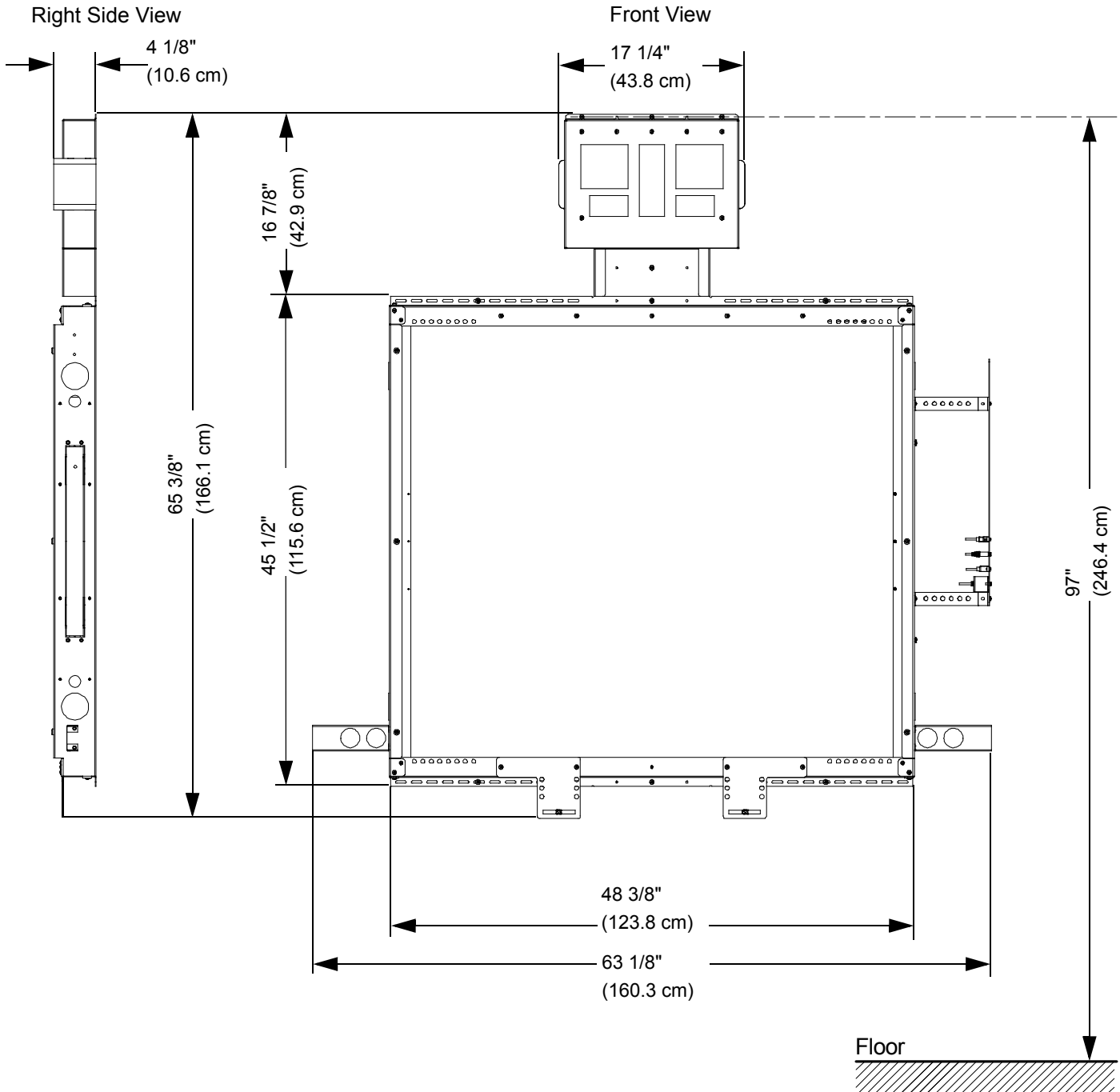
SMART Hub SE240 with SMART Board SB680i2



SMART Hub SE240



Wall Mount Frame



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