

OVERVIEW



1. USB-C 3.2 Gen 1 (for Controller)	8. HDMI-out 1.4
2. USB 3.2 Gen 1	9. Power connector
3. HDMI-out 1.4	10. HDMI-in *
4. USB 3.2 Gen 2	11. USB-C 2.0 (for Core)
5. Ethernet (RJ-45)	12. Headphone / microphone combo jack (3.5mm)
6. Thunderbolt 4	13. Screw for security plate
7. USB-C 3.2 Gen 2	14. Kensington MiniSaver lock slot

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

11th Generation Intel® Core™ i5 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i5-1145G7E	4	8	1.5GHz	4.1GHz ^[1]	8MB	DDR4-3200	Intel® Iris® Xe Graphics

Notes:

[1] Intel® Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see

<http://www.intel.com/technology/turboboost/> for more information.

Operating System

Operating System**

- Windows® 11 IoT Enterprise for Collaboration GAC 64
- Windows® 10 IoT Enterprise for Collaboration SAC 64

Graphics

Graphics

Graphics	Type	Memory	Max Resolution	Connector
Intel® Iris® Xe Graphics	Integrated	Shared	3840x2160@24Hz(HDMI®)	2x HDMI®

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory

16GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

DDR4-3200

Storage

Storage Support

One drive, up to 256GB SSD

Storage Type

Disk Type	Interface
M.2 2242 SSD	PCIe® NVMe®, PCIe® 3.0 x4
M.2 2280 SSD	PCIe® NVMe®, PCIe® 3.0 x4

Power Supply

Power Supply

Power	Type	Efficiency	Key Features
90W	Adapter	89%	Autosensing

DESIGN

Mechanical



Component Options**

Product	Compute System	Controller	Audio Bar	Microphone Component	Camera Component
ThinkSmart® Core + ThinkSmart® Controller Full Room Kit	1x ThinkSmart® Core	1x ThinkSmart® Controller	1x ThinkSmart® Bar	(Optional) 2x Satellite Microphone	1x ThinkSmart® Cam
ThinkSmart® Core + Lenovo® IP Controller Full Room Kit	1x ThinkSmart® Core	1x Lenovo® IP Controller	1x ThinkSmart® Bar	(Optional) 2x Satellite Microphone	1x ThinkSmart® Cam
ThinkSmart® Core + ThinkSmart® Controller + ThinkSmart® Bar 180 Full Room Kit	1x ThinkSmart® Core	1x ThinkSmart® Controller	1x ThinkSmart® Bar 180	-	-
ThinkSmart® Core + Lenovo® IP Controller + ThinkSmart® Bar 180 Full Room Kit	1x ThinkSmart® Core	1x Lenovo® IP Controller	1x ThinkSmart® Bar 180	-	-
ThinkSmart® Core + ThinkSmart® Controller	1x ThinkSmart® Core	1x ThinkSmart® Controller	-	-	-
ThinkSmart® Core + Lenovo® IP Controller	1x ThinkSmart® Core	1x Lenovo® IP Controller	-	-	-

Controller**

Component Name	Display	Sensors	Ports	Key Features
Lenovo® IP Controller	<ul style="list-style-type: none"> • 10.1" Display, HD (1280x800) • 360 nits brightness • 16:10 aspect ratio • 10-point touch • Anti-Fingerprint, Anti-Glare 	Human Presence Sensor	<ul style="list-style-type: none"> • 1x Gigabit Ethernet (RJ-45) • 1x Kensington® Security Slot™ • 1x HDMI®-in • 1x Power Connector (on Link Box) • 1x Gigabit Ethernet (RJ-45, on Link Box) • 1x HDMI® out (on Link Box) • 1x USB-B (on Link Box) 	<ul style="list-style-type: none"> • Wall mountable (For wall mounting, mount kits are needed. The kits are sold separately and coming soon) • 85/85/85/85 viewing angle • 30° and 60° rotatable
ThinkSmart® Controller	<ul style="list-style-type: none"> • 10.1" Display, HD (1280x800) • Up to 340 nits brightness • 16:10 aspect ratio • 10-point touch • Anti-Fingerprint, Anti-Glare 	Human Presence Sensor	<ul style="list-style-type: none"> • 1x USB-C® (connect to compute unit, 10m USB-C® cable included) • 1x 3.5mm headphone / mic combo jack • 1x Kensington® MiniSaver Security Slot 	<ul style="list-style-type: none"> • 85/85/85/85 viewing angle • 30° and 60° rotatable

Audio Bar***

Component Name	Speaker	Microphone	Camera	Noise Control	Ports	Key Features
ThinkSmart® Bar	<ul style="list-style-type: none"> • 4x Speaker units, with power output 20+20W • Up to 97dB to cover large meeting room • 250 Hz to 20 KHz frequency range 	<ul style="list-style-type: none"> • 4x Forming mic array, with 180° coverage • 300 Hz to 8 KHz frequency range 	-	Built-in DSP for echo and noise-cancellation	<ul style="list-style-type: none"> • 1x USB-C® (USB 2.0, connect to ThinkSmart® Core compute unit) • 1x AUX in (connect to Mic Pod) 	<ul style="list-style-type: none"> • Bluetooth® 5.0 (A2DP, SBC, MPEG-4, AAC) • (Optional) Wall and TV mounting
ThinkSmart® Bar 180	<ul style="list-style-type: none"> • 4x Speaker (2x woofer, 2x 	<ul style="list-style-type: none"> • 8x microphone beamforming 	<ul style="list-style-type: none"> • 3x Camera • 13 megapixels 	Noise cancellation	<ul style="list-style-type: none"> • 1x USB-C® • 1x USB 3.2 Gen 1 	<ul style="list-style-type: none"> • Integrated People Count

	tweeter) • Stereo audio out • 80 Hz to 20 KHz frequency range	array • -37dBFS sensitivity • 100 Hz to 8 KHz frequency range	• Up to 3840 x 1080@30fps • 180° Horizontal FoV, 54° Vertical FoV	support	• 1x RJ 45	• Automatic Speaker Detection • Intelligent Zoom • Bluetooth® connection for Remote Controller • Wall mount kit
No Audio Bar	-	-	-	-	-	-

Microphone Component**

Component Name	Capturing Range	Ports
Satellite Microphone	1m, 360 degree, omni direction	• 1x Mic out (connect to ThinkSmart® Bar) • 1x Mic in (connect to next Mic Pod)
No Satellite Microphone	-	-

Camera Component**

Component Name	Image	Optics	Ports	Key Features
ThinkSmart® Cam	• Up to 4K at 30fps resolutions (USB 3.2 Gen 1 Cable)	• 100° Horizontal FoV • 68° Vertical FoV • 125° Diagonal FoV	1x USB-C® (connect to ThinkSmart® Core compute unit)	• Standalone (tabletop), (Optional) Wall and TV mounting • Image output format: MPEG, H.264, YUV • UVC (USB Video Class) 1.1 plug-and-play support • AI conference meeting function: auto zoom, auto framing, people counting, speaker tracking, whiteboard awareness • HDR (High Dynamic Range) support
No ThinkSmart® Cam	-	-	-	-

Dimensions (WxDxH)^[1]

Models	Dimensions
ThinkSmart® Cam	105 x 60.5 x 36 mm (4.1 x 2.4 x 1.4 inches)
ThinkSmart® Core	226 x 200 x 37.5 mm (8.9 x 7.9 x 1.5 inches)
Lenovo® IP controller	248 x 151 x 100 mm (9.76 x 5.94 x 3.94 inches)
ThinkSmart® controller	265.5 x 13 x 168.1 mm (10.5 x 0.5 x 6.6 inches)
ThinkSmart® controller with stand	265.5 x 83.3 x 168.1 mm (10.5 x 3.3 x 6.6 inches)
ThinkSmart® Bar 180	650 x 80 x 125 mm (25.6 x 3.1 x 4.9 inches)
Satellite Microphone	• Diameter: 100 mm (3.9 inches) • Height: 20 mm (0.8 inches)

Weight^[2]

Models	Weight
ThinkSmart® Core	1.1 kg (2.4 lbs)
Satellite Microphone	220 g (0.5 lbs)
ThinkSmart® Cam	220 g (0.5 lbs)
ThinkSmart® controller	753.8 g (1.7 lbs)
Lenovo® IP controller	Around 0.97 kg (2.16 lbs)
ThinkSmart® Bar 180	Around 2.2 kg (4.85 lb)

Notes:

[1] The system dimensions may vary depending on configurations.

[2] The system weight is approximate and based on results in Lenovo® lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

CONNECTIVITY

Network

Ethernet

Gigabit Ethernet, Intel® Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**

- Intel® Wireless-AC 9260, Wi-Fi® 5, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth® 5.0, Intel® vPro® technology support, M.2 card
- Intel® Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.0, Intel® vPro® technology support, M.2 Card

Ports^[1]

Rear Ports^[2]

- 1x Thunderbolt™ 4
- 1x USB-C® 3.2 Gen 1
- 1x USB-C® 3.2 Gen 2
- 1x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x HDMI®-in
- 2x HDMI®-out 1.4
- 1x Ethernet (RJ-45)
- 1x power connector

Notes:

[1] The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.

USB 2.0: 480 Mbit/s;

USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;

USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;

USB4® 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4® 40Gbps (USB 40Gbps): 40 Gbit/s;

Thunderbolt™ 3/4: 40 Gbit/s.

[2] Ports on Compute System (ThinkSmart® Core) only. Components' ports refer to components' specifications.

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

Kensington® Security Slot™

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- Smart USB protection

MANAGEABILITY

System Management

System Management

Intel® vPro® with Intel® AMT 15

SERVICE

Warranty^[1]

Base Warranty

3-year limited onsite service

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://support.lenovo.com/warrantylookup/warrantypolicy>.

SOFTWARE

Preinstalled Software

Preinstalled Software

Microsoft® Teams Rooms

- This is a telepresence technology product.
- Feature with ** means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
- Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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