

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® 10 IoT Enterprise SAC 64
- Windows 11 IoT Enterprise SAC 64

Graphics

Graphics

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

ThinkSmart Core for Microsoft Team Rooms

Component Options**

Product	Compute System	Controller	Audio Bar	Microphone Component	Camera Component
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 + Lenovo IP Controller + ThinkSmart Bar 180	1x ThinkSmart Core	1x Lenovo IP Controller	1x ThinkSmart Bar 180	-	-
ThinkSmart Core + Lenovo IP Controller	1x ThinkSmart Core	1x Lenovo IP Controller	-	-	-
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 + ThinkSmart Controller	1x ThinkSmart Core	1x ThinkSmart Controller	-	-	-
ThinkSmart Core + ThinkSmart Bar 180	1x ThinkSmart Core	1x ThinkSmart Controller	1x ThinkSmart Bar 180	-	-

Controller**

Component Name	Display	Sensors	Multi-touch	Ports	Key Features
Lenovo IP Controller	<ul style="list-style-type: none"> • 10.1" Display, HD (1280x800) • 360 nits brightness • 16:10 aspect ratio • Anti-Fingerprint 	IR sensors for motion detection, up to 3 meters distance and 90° angle	10-point touch	<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) 	Wall mountable (For wall mounting, mount kits are needed. The kits are sold separately and coming soon)
ThinkSmart Controller	<ul style="list-style-type: none"> • 10.1" Display, HD (1280x800) • Up to 340 nits brightness • 16:10 aspect ratio • Anti-Fingerprint, Anti-Glare • 30° or 60° rotatable 	IR sensors for motion detection, up to 3 meters distance and 90° angle	10-point touch	<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 Security Slot 	-

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) • Wall / Monitor mount kit
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 	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

ThinkSmart Core for Microsoft Team Rooms

	tweeter) • 80 Hz to 20 KHz frequency range	array • 100 Hz to 8 KHz frequency range	megapixels • 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 and app control • 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 Microphone	-	-

Camera Component**

Component Name	Image	Optics	Microphone	Ports	Key Features
ThinkSmart Cam	• Up to 1080p@30fps video capture • 8MP 1/1.8" CMOS sensor • Digital PTZ (Pan / Tilt / Zoom)	• 100° Horizontal FoV • 68° Vertical FoV • 125° Diagonal FoV	2x Digital microphone	1x USB-C (connect to ThinkSmart Core compute unit)	• Wall mount kit, TV mount kit, and magnetically mount on ThinkSmart Bar • Auto Zoom/Frame • Speaker Tracking • Whiteboard Recognition • People Count
No Camera	-	-	-	-	-

Dimensions (WxDxH)^[1]

Models	Dimensions
ThinkSmart Cam	105 x 60.5 x 36 mm (4.1 x 2.4 x 1.4 inches)
ThinkSmart Cam with clamp	105 x 60.5 x 51.7 mm (4.1 x 2.4 x 2 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	798 x 91.3 x 56.5 mm (31.4 x 3.6 x 2.2 inches)
Compute System	226 x 200 x 37.5 mm (8.9 x 7.9 x 1.5 inches)
Compute System with clamp unfold	226 x 200 x 51.7 mm (8.9x 7.9 x 2 inches)
Lenovo IP controller	248 x 151 x 100 mm (9.76 x 5.94 x 3.94 inches)
Satellite Microphone	• Diameter: 100 mm (3.9 inches) • Height: 20 mm (0.8 inches)

Weight^[2]

Models	Weight
Compute System	1.1 kg (2.4 lbs)
Satellite Microphone	220 g (0.5 lbs)
ThinkSmart Cam	220 g (0.5 lbs)
ThinkSmart Bar	3.6 kg (7.9 lbs)
ThinkSmart controller	753.8 g (1.7 lbs)
Lenovo IP controller	Around 0.97 kg (2.16 lbs)

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

- Power-on password
- Supervisor password
- Hard disk 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://pcsupport.lenovo.com/warranty>.

SOFTWARE

Preinstalled Software

Preinstalled Software

Microsoft® Teams Rooms

- This is a telepresence technology product.
- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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