

## 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 <sup>[1]</sup>	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
- Windows® 10 IoT Enterprise

### 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™ Controller + 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"> <li>• 10.1" Display, HD (1280x800)</li> <li>• 360 nits brightness</li> <li>• 16:10 aspect ratio</li> <li>• Anti-Fingerprint</li> </ul>	IR sensors for motion detection, up to 3 meters distance and 90° angle	10-point touch	<ul style="list-style-type: none"> <li>• 1x Gigabit Ethernet (RJ-45)</li> <li>• 1x Kensington® Security Slot™</li> <li>• 1x HDMI®-in</li> <li>• 1x Power Connector (on Link Box)</li> <li>• 1x Gigabit Ethernet (RJ-45, on Link Box)</li> <li>• 1x HDMI® out (on Link Box)</li> <li>• 1x USB-B (on Link Box)</li> </ul>	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"> <li>• 10.1" Display, HD (1280x800)</li> <li>• Up to 340 nits brightness</li> <li>• 16:10 aspect ratio</li> <li>• Anti-Fingerprint, Anti-Glare</li> <li>• 30° or 60° rotatable</li> </ul>	IR sensors for motion detection, up to 3 meters distance and 90° angle	10-point touch	<ul style="list-style-type: none"> <li>• 1x USB-C® (connect to compute unit, 10m USB-C® cable included)</li> <li>• 1x 3.5mm headphone / mic combo jack</li> <li>• 1x Kensington® Security Slot™</li> </ul>	-

## Audio Bar\*\*\*

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

# ThinkSmart Core for Microsoft Team Rooms

	KHz frequency range					
ThinkSmart™ Bar 180	<ul style="list-style-type: none"> <li>• 4x Speaker (2x woofer, 2x tweeter)</li> <li>• 80 Hz to 20 KHz frequency range</li> </ul>	<ul style="list-style-type: none"> <li>• 8x microphone beamforming array</li> <li>• 100 Hz to 8 KHz frequency range</li> </ul>	<ul style="list-style-type: none"> <li>• 3x Camera</li> <li>• 13 megapixels</li> <li>• Up to 3840 x 1080@30fps</li> <li>• 180° Horizontal FoV</li> <li>• 54° Vertical FoV</li> </ul>	Noise Cancellation support	<ul style="list-style-type: none"> <li>• 1x USB-C®</li> <li>• 1x USB 3.2 Gen 1</li> <li>• 1x RJ 45</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated People Count</li> <li>• Automatic Speaker Detection</li> <li>• Intelligent Zoom</li> <li>• Bluetooth® connection for Remote Controller and app control</li> <li>• Wall mount kit</li> </ul>
No Audio Bar	-	-	-	-	-	-

## Microphone Component\*\*

Component Name	Capturing Range	Ports
Satellite Microphone	1m 360 degree omni direction	<ul style="list-style-type: none"> <li>• 1x Mic out (connect to ThinkSmart™ Bar)</li> <li>• 1x Mic in (connect to next Mic Pod)</li> </ul>
No Microphone	-	-

## Camera Component\*\*

Component Name	Image	Optics	Microphone	Ports	Key Features
ThinkSmart™ Cam	<ul style="list-style-type: none"> <li>• Up to 1080p@30fps video capture</li> <li>• 8MP 1/1.8" CMOS sensor</li> <li>• Digital PTZ (Pan / Tilt / Zoom)</li> </ul>	<ul style="list-style-type: none"> <li>• 100° Horizontal FoV</li> <li>• 68° Vertical FoV</li> <li>• 125° Diagonal FoV</li> </ul>	2x Digital microphone	1x USB-C® (connect to ThinkSmart™ Core™ compute unit)	<ul style="list-style-type: none"> <li>• Wall mount kit, TV mount kit, and magnetically mount on ThinkSmart™ Bar</li> <li>• Auto Zoom/Frame</li> <li>• Speaker Tracking</li> <li>• Whiteboard Recognition</li> <li>• People Count</li> </ul>
No Camera	-	-	-	-	-

## Dimensions (WxDxH)<sup>[1]</sup>

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	<ul style="list-style-type: none"> <li>• Diameter: 100 mm (3.9 inches)</li> <li>• Height: 20 mm (0.8 inches)</li> </ul>

## Weight<sup>[2]</sup>

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 Core for Microsoft Team Rooms

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® Wireless-AC 9260, 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<sup>[1]</sup>

#### Rear Ports<sup>[2]</sup>

- 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<sup>[1]</sup>

#### 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.
- Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.
- The specifications on this page may not be available in all regions, and may be changed or updated without notice.

