

# Lenovo EPC300

Smart, automated Internet of Things (IoT) applications streamline your industrial operations. They speed up production and help you trim costs. Sometimes, they even make the impossible possible.

Rapidly roll out your own smart IoT applications with a Lenovo EPC300 edge computing infrastructure.

## **MORE POWER, BETTER PRICE**

The EPC300 has the power to handle all your real-time data aggregation and processing with higher-performance CPUs than the competition—yet at a better price—so you can confidently scale your IoT environment as your business grows. The EPC300 even doubles as an IoT gateway, with cost-effective, diverse wired and wireless connections built right in.

## **BANDWIDTH AND STORAGE SAVINGS**

Use the Lenovo EPC300 to aggregate and analyze real-time data from your distributed IoT devices. It's able to filter and forward only relevant IoT data across the WAN to the cloud or your data center. That adds up to big savings for you in network bandwidth and northbound storage costs.

## **BUILT-IN RELIABILITY AND VERSATILITY**

True to the Lenovo brand, the fanless EPC300 is rugged, built to withstand industrial environments from 0° to 50°C. Flexible mounting options paired with real-world digital I/O connectors allow you to install the EPC300 just about anywhere.



Smarter  
technology  
for all

Lenovo



### POWER AND RELIABILITY AT THE EDGE

The latest Intel® 8<sup>th</sup> WHL-U processing platform combines with up to 256GB of SSD storage, up to 1TB of HDD storage, and native digital I/O connections to create a robust IoT edge infrastructure. The EPC300 will keep pace with your real-time Smart Edge applications, whether they're improving efficiencies for you on a factory floor, in a warehouse, in a smart building, or in any other industrial environment.



### STAYING SECURE

Lenovo helps you reduce the risk of IoT devices becoming unwanted entry points into your network. You can partition the EPC300's dual Ethernet ports, using one for local communications and one for the WAN, to block intrusions originating at remote IoT devices.



### RICH COMMUNICATIONS

Your EPC300 can communicate with local and remote IoT devices, management systems, the cloud, and your own or third-party data centers over wired and wireless Internet connections. The EPC300 can serve as an IoT gateway, connecting devices supporting dissimilar communications protocols across a network connection.



### MANAGEABILITY

The EPC300 is compatible with the Microsoft® Azure IoT Edge and Amazon Web Services (AWS) IoT Greengrass platforms. It's able to locally process data generated by Azure and AWS cloud services, while still using the cloud for management, analytics, and longer-term storage.

## EPC300 Edge Gateway

### RECOMMENDED USE CASES

#### smart manufacturing: factory floor

- Rugged PC with customized I/O for machine connectivity
- Barcode scanning
- Interactive display
- Quality verification from camera vision
- Edge reporting

#### smart retailing: warehousing and vending

- Rugged PC with customized I/O for machine connectivity
- CAN-Bus connected manufacturing OT to IT convergence
- Conduct transactions over secure wireless
- Embedded motion sensors
- Camera vision and analytics
- Trigger automated alert or action based on machine status
- Workload consolidation in retail and containerized "Back of Store" virtualization

#### smart buildings: facilities

- Local data collection from motion sensors, clocks, surveillance cameras, and other machines
- Trigger lighting systems, thermostats, HVACs, sprinklers, alarms, and other systems to take automated action, depending on whether people are present, time of day, temperature, humidity, smoke levels, and other variables



## Lenovo EPC300

### performance

#### PROCESSOR

Intel® i3-8145U  
Intel® i5-8265U

#### OPERATING SYSTEM

Windows 10 Pro  
Windows 10 IoT LTSC  
Ubuntu 18.04 (Drivers only)

#### MEMORY

Up to 32GB DDR4

#### AUDIO

Line in, Line out

#### STORAGE

1 x 2.5" SATA SSD 128GB/256GB  
1 x 2.5" HDD 500GB/1TB (only supports 0°-35°C)  
1 x M.2 PCIe 128GB/256GB

### connectivity

#### FRONT INPUT/OUTPUT PORTS

1 x USB 3.0  
4 x RS-232  
2 x RS-422/485  
2 x Audio Line In/Out  
SIM card slot (reserved for Integrator certification)  
Power button  
DC input (12-57V with AC to DC  
Adapter 65W Adapter support)

#### REAR INPUT/OUTPUT PORTS

2 x USB 2.0  
1 x USB 3.0  
1 x HDMI  
1 x DP  
2 x GbE LAN  
CAN Bus (optional)  
4DI + 4DO (optional)  
2 x RS-422/485 (optional/BIOS configurable)  
2 x RS-232 (optional)

#### EXPANSION SLOT

1 x mPCIe

### design

#### DIMENSIONS

179mm x 182.9mm x 72mm  
7.04in x 7.2in x 2.83in

#### WEIGHT

2.6kg/5.7lb

### external mechanical mounting options

VESA wall mount  
DIN rail bracket

### security

TPM 2.0 chip  
UEFI Secure Boot  
Intel® Boot Guard  
Dual Ethernet port isolation

### reliability

#### VIBRATION

With SSD: 3 Grms, random, 5 - 500 Hz  
1 hr/axis, X, Y, Z axes

#### SHOCK

With SSD: 50 G, half sine, 11 ms duration

#### OPERATING TEMPERATURE

Temp: 0°-50°C; Humidity: 10%-95% (non-condensing)

#### STORAGE TEMPERATURE

Temp: -40°-60°C; Humidity: 10%-90% (non-condensing)

#### OFFICIAL IP PROTECTION

Passed IP50 dust-proof test  
IEC 60068 Environmental Testing Part 2  
IEC 60721-3-3 Classification of Environmental Conditions Part 3  
Test equipment: Dust chamber, internal dimension: 1 x 1 x 1m  
Test material: Talcum powder, diameter: 50-75µm, weight: 2 kg

### manageability

Microsoft® Azure IoT Edge  
AWS IoT Greengrass

### certifications

AWS IoT Greengrass certified  
Microsoft® Azure IoT Edge certified

#### RF

EMC CE/FCC/ICES Class B  
BSMI  
RCM  
VCCI

#### SAFETY

UL (UL 60950-1, UL 61010-1,  
UL 61010-2-201)  
CCC  
BSMI  
GS  
BIS  
CE  
CM

### EPC300 product highlights

- Fanless design (0°-50°C operating temperature)
- Diverse I/O port support: 6 Com, including 2 x RS-422/RS-485 and 4 x RS-232
- DIN rail, wall mount support
- High performing computing and memory
- Microsoft® Azure IoT Edge Certified
- AWS IoT Greengrass Certified

#### EPC300 EDGE COMPUTER

### The Lenovo Advantage

- Higher-performing CPU
- Competitive price
- Transparent supply chain
- Best-in-class engineering

With the Gartner Group predicting 25 billion connected IoT devices by 2021\*, it's time to find a reliable and affordable edge computing infrastructure that can support your growing IoT environment.

#### MAKE YOUR EDGE A LENOVO SMART EDGE.

Visit [www.lenovo.com/smartedge](http://www.lenovo.com/smartedge)

\*Source: <https://www.gartner.com/en/newsroom/press-releases/2018-11-07-gartner-identifies-top-10-strategic-iot-technologies-and-trends>

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