The Edge continues to be more critical as global challenges and opportunities emerge in every part of the world. Azure Stack Edge Pro R brings compute and storage to anywhere you need it. An Azure-managed ruggedized edge appliance, it can also operate disconnected, for the most demanding environments.

**Designed for the toughest environments.** Keep working in the most rugged and challenging conditions, with an optional uninterruptable power supply. Remotely configurable and maintainable. Ruggedized case designed for harsh conditions.

**Operate in disconnected and connected environments.** Whether you’re connected to Azure or are operating in a disconnected, air-gapped environment, the Azure Stack Edge Pro R will provide continuous compute and storage resources at the edge.

**Benefit from hardware-accelerated machine learning.** Build and train machine learning models in Azure, then utilize the NVIDIA Tensor Core T4 GPU to accelerate the results locally on Azure Stack Edge Pro R. Upload the full data set or a subset to the cloud to retrain your models and make your edge devices smarter.

**Transfer data over the network.** Whether you’re transferring data to Azure, Azure Stack Hub Ruggedized from Microsoft or Azure Modular Data Center, the Azure Stack Edge Pro R acts as a cloud storage gateway and enables eyes-off data transfers to any one of the above destinations, while retaining local access to files. With its local cache capability and bandwidth throttling to limit usage during critical/peak periods, the Azure Stack Edge Pro R optimizes your data transfers.

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**How Azure Stack Edge Pro R enables edge computing and machine learning**

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**Azure Stack Edge**

- Local edge compute
- Hardware acceleration
- Local storage
- Local systems and data

**Azure Cloud**

- Azure Arc, IoT Hub, and VMs
- Azure Stack Edge cloud resource
- Azure Storage (Block, page, and files)
- All 200+ Azure services

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Azure Stack Edge combines IoT Edge and accelerated ML inferencing in a cloud-managed edge computing appliance delivered as an Azure service.
Why use Azure Stack Edge Pro R

The Azure Stack Edge Pro R Appliance brings the compute, storage, and intelligence of Azure right to where you need it—anywhere in the world. It is simple to order and use, with high-speed connectivity to efficiently transfer data to the cloud. Easily manage your fleet of Azure Stack Edge devices from the Azure portal.

Use it to help solve challenges for edge use cases such as:

- **Remote site compute**
  - Run applications for your mission at remote locations to speed transactions and address bandwidth constraints in the harshest conditions.

- **Machine learning at the edge**
  - Run machine learning solutions at edge locations for quick analysis and insights close to the data source.

- **Internet of Things**
  - Use Azure IoT Edge to enable connecting to all your local IoT devices and analyzing the data they generate.

- **Regulatory compliance**
  - Analyze data locally before sending to the cloud to ensure it is compliant and follows your data policies in any environment.

- **Network data transfer from the edge to any rugged appliance or Azure**
  - Easily and quickly transfer data to Azure for further compute or archival purposes or to expedite your cloud migration.

Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>2x 10-core Intel Xeon</td>
</tr>
<tr>
<td></td>
<td>32 usable vCPUs</td>
</tr>
<tr>
<td>RAM</td>
<td>217 GB usable</td>
</tr>
<tr>
<td>Local cache capacity</td>
<td>42 TB usable (SSD)</td>
</tr>
<tr>
<td>Data protection/security</td>
<td>AES 256-bit encryption</td>
</tr>
<tr>
<td>Form factor</td>
<td>1U server mounted inside ruggedized case</td>
</tr>
<tr>
<td>Network interface</td>
<td>2x 25/10 Gbe SFP28</td>
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<tr>
<td></td>
<td>2x 1 Gbe RJ45</td>
</tr>
<tr>
<td>Accelerated ML</td>
<td>NVIDIA T4 Tensor Core GPU</td>
</tr>
<tr>
<td>Power</td>
<td>110/240 (50/60 Hz)</td>
</tr>
<tr>
<td>Configuration options</td>
<td>Azure Stack Edge Pro R</td>
</tr>
<tr>
<td></td>
<td>Azure Stack Edge Pro R + UPS</td>
</tr>
</tbody>
</table>

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