

# Atlas 900T RAK Compute Node Quick Start Guide

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| Symbol  | Description   |
|---|---|
|  DANGER    | Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.   |
|  WARNING   | Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.  |
|  CAUTION | Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.  |
|  NOTICE  | Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.<br>NOTICE is used to address practices not related to personal injury. |
|  NOTE    | Supplements the important information in the main text.<br>NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.   |

## 1 Specifications

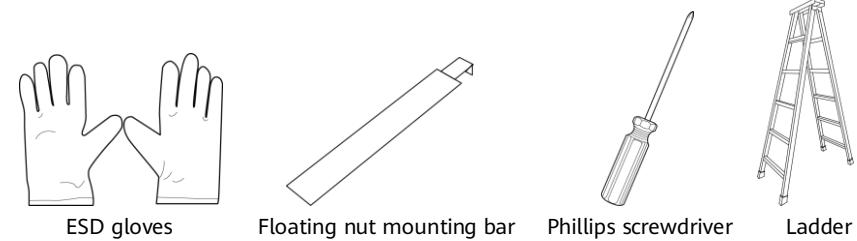
The Atlas 900T RAK compute node is a 4U training compute node using Huawei Kunpeng 920 and Ascend 910 processors. It supports air cooling.



Environmental specifications:

| Item                                   | Specification  |
|--|--|
| Temperature                            | <ul style="list-style-type: none"> <li>Operating range: 5°C to 35°C (41°F to 95°F)</li> <li>Storage temperature (within three months): -30°C to +60°C (-22°F to +140°F)</li> <li>Storage temperature (within six months): -15°C to +45°C (5°F to 113°F)</li> <li>Maximum rate of temperature change: 20°C (36°F) per hour, 5°C (9°F) per 15 minutes</li> </ul>   |
| Relative humidity (RH, non-condensing) | <ul style="list-style-type: none"> <li>Operating range: 8% to 90%</li> <li>Storage range (within 72 hours): 8% to 95%</li> <li>Storage range (within 6 months): 20% to 75%</li> <li>Maximum change rate: 20%/h</li> </ul>  |
| Maximum altitude                       | <p>3050 m (10000 ft.)</p> <p> <b>NOTE</b></p> <p>ASHRAE 2015 compliant:</p> <ul style="list-style-type: none"> <li>ASHRAE Class A1 and A2 compliant: For altitudes above 900 m (2952.72 ft.), the highest operating temperature decreases by 1°C (1.8°F) for every increase of 300 m (984.24 ft.) in altitude.</li> <li>ASHRAE Class A3 compliant: For altitudes above 900 m (2952.72 ft.), the highest operating temperature decreases by 1°C (1.8°F) for every increase of 175 m (574.15 ft.) in altitude.</li> <li>ASHRAE Class A4 compliant: For altitudes above 900 m (2952.72 ft.), the highest operating temperature decreases by 1°C (1.8°F) for every increase of 125 m (410.10 ft.) in altitude.</li> </ul> |

## 2 Tools



## 3 Installation



- Exercise caution when using tools.
- If the installation position of the device is higher than the shoulders of the installation personnel, use a vehicle such as a lift to facilitate installation. Prevent the equipment from falling down and causing personal injury or damage to the equipment. When a ladder is used, ensure that another person holds the ladder steady to prevent accidents.



- Wear ESD gloves and remove conductive objects, such as jewelry and watches.
- At least four persons are required to move the chassis. When moving a chassis, keep your back straight and move smoothly to avoid any injury.
- Do not use mounting ears as the holding points when moving the compute node. Otherwise, the compute node may be damaged or slipped.

- Holding the handles of the compute node with both hands, lift the compute node from both sides and place the compute node on the guide rails.
- Push the compute node into the cabinet. See (1).
- Align the mounting ears on both sides of the compute node with the mounting bars and tighten the captive screws on the mounting ears to secure the compute node. See (2).

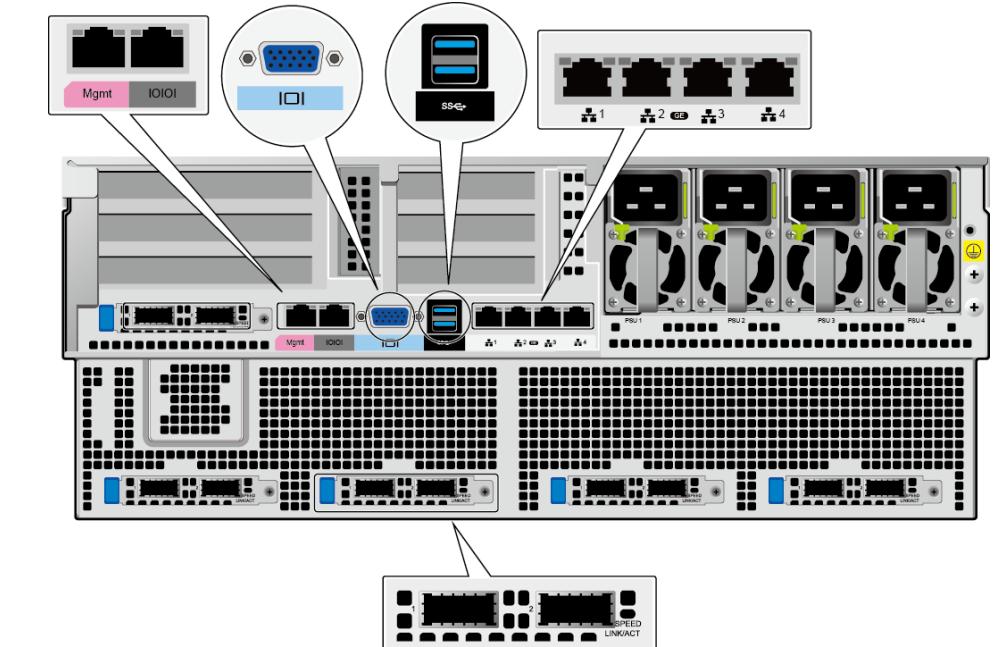


## 4 Power-On

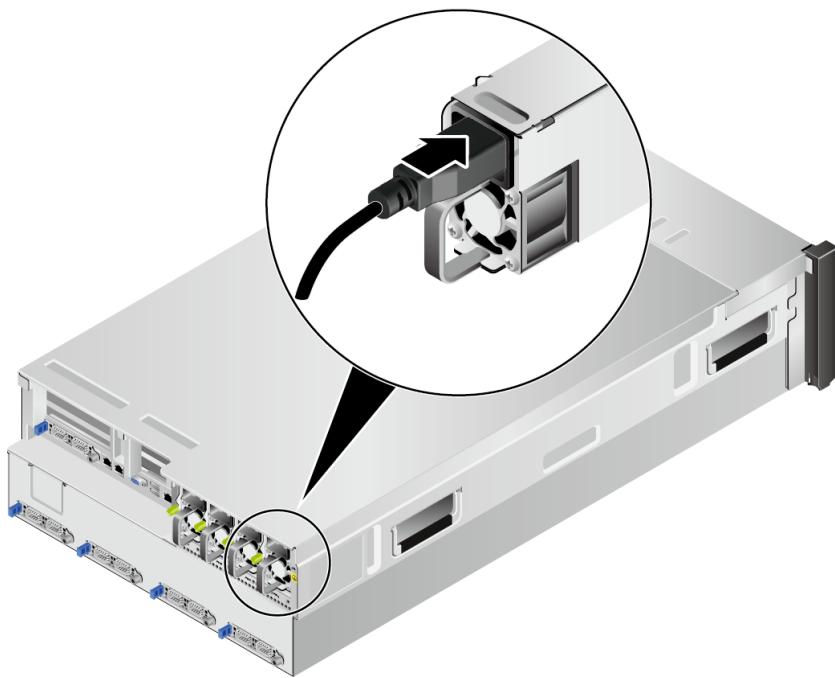


You need to connect the ground cable of the Atlas 900T RAK compute node to the ground port of the compute node. The equipment is powered by high-voltage power sources. Direct or indirect contact (especially through damp objects) with high-voltage power sources may result in serious injury or death.

- Connect the VGA cable , USB cable , FlexIO card network cable or optical fiber network cable , LOM port cable , management network port cable , and serial port cable  as required.



- Connect cables to the power sockets.



3. Turn on the power switch in the cabinet.

The recommended current specification for the external power circuit breaker connected to the compute node is as follows:

- AC power supply: 32 A
- DC power supply: 63 A

4. Power on the compute node.

The power-on methods of the compute node vary according to the following scenarios:

- The power supply units (PSUs) are properly installed but not powered on.

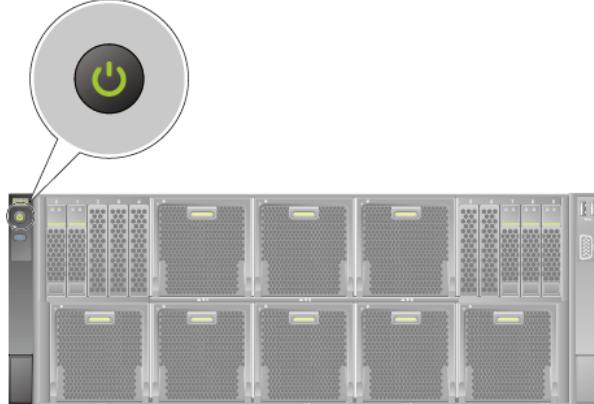
Connect the external power supply to the PSUs. Then the compute node will power on with the PSUs.

 **NOTE**

The default value of **System State Upon Power Supply** is **Power On**, which indicates that the compute node automatically powers on after power is supplied to the PSUs. You can change the value of **System State Upon Power Supply** on the iBMC WebUI.

- The PSUs are installed properly and powered on. The compute node is in the standby state (the power button/indicator is steady yellow).

- Press the power button/indicator  to power on the compute node.



- Power on the compute node using the iBMC CLI.

Log in to the iBMC CLI, run the **ipmcset -d powerstate -v 1** command, and enter **y** or **Y** to power on the compute node.

- Power on the compute node using the iBMC WebUI.

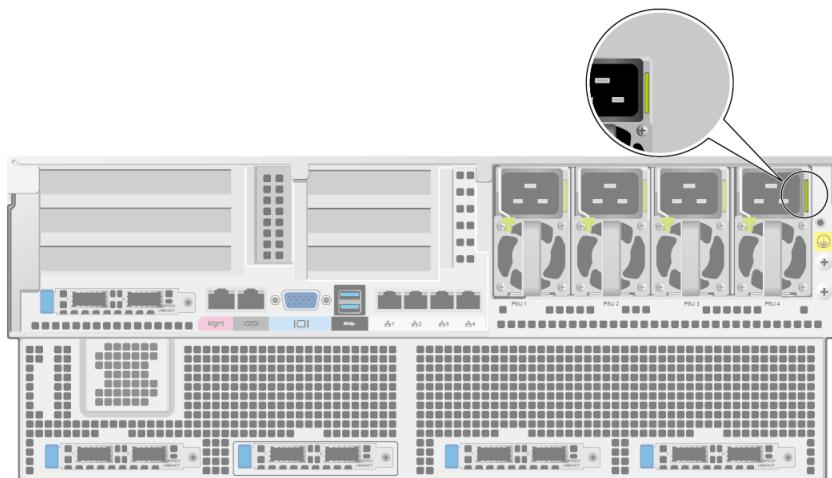
Log in to the iBMC WebUI, choose **System > Power > Power Control**, click the **Power On** button, and click **YES** in the dialog box displayed.

- Power on the compute node using the remote virtual console.

Log in to the remote virtual console. On the KVM screen, click  or  on the toolbar, select **Power On**, and click **OK** to power on the compute node.

5. Check the status of the indicators.

- If the power indicator is steady green, the PSUs are powered on.



- If the power button/indicator  is steady green, the compute node is powered on.

## 5 Appendix: Hazardous Substance Statement for Electronic and Electrical Products

| Part                | Hazardous Substances  |                                  |                       |                       |                       |                       |
|---------------------|-----------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                     | Cd                    | Pb                               | Hg                    | Cr (VI)               | PBB                   | PBDE                  |
| Shell               | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| PCBA                | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cable               | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Accessories         | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Corollary Equipment | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Battery             | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

This statement for electronic and electrical products complies with SJ/T 11364.

: all homogenous part materials under GB/T 26572 hazardous substance limit

: at least one homogenous material exceeds GB/T 26572 hazardous substance limit