Power Supply and Cooling System

The vEdge 1000 router has two built-in fans and ships with two external AC power supply adapters. Read this article to learn more about the AC power supply adapter in the router as well as about the cooling system and airflow through the router chassis.

AC Power Supply Adapter

You can connect up to two AC power supply adapters to the vEdge 1000 router for redundancy purposes.

Note: It is strongly recommended that you use the power supply adapters provided by Viptela to power your vEdge 1000 router.

Table 1 provides the power requirements for the external AC power supply adapter for the vEdge 1000 router.

Table 1: Electrical Specifications for the AC Power Supply Adapter for vEdge 1000 Router

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC input voltage</td>
<td>90-264 Vrms</td>
</tr>
<tr>
<td>AC input line frequency</td>
<td>47-63 Hz</td>
</tr>
<tr>
<td>Typical power consumption</td>
<td>28 Watts</td>
</tr>
</tbody>
</table>

AC Power Cord Specifications

The vEdge 1000 router ships with a detachable AC power cord. The power cord has a C13 connector at one end and the other end is specific to the country/locality to which the product is shipped.

Cooling System and Airflow in vEdge 1000 Router

The vEdge 1000 router has built-in fans that provide front-to-back airflow for the router.

The air intake to cool the chassis is through the perforations in the front of the chassis. Hot air exits from the rear of the chassis via the vents provided near the fans. See Figure 1 and Figure 2 below.

Figure 1: vEdge 1000 Router Airflow
Temperature sensors in the chassis monitor the internal chassis temperature. When a single fan fails at room temperature, the system can still provide sufficient cooling. If a fan fails or if the ambient temperature inside the chassis rises above the acceptable range, the router raises an alarm. If the temperature inside the chassis rises above the maximum threshold temperature, the router shuts down automatically.

Additional Information

Maintenance and Troubleshooting
Front Panel Components
Transceiver Modules
Ports and Connectors
Field-Replaceable Units