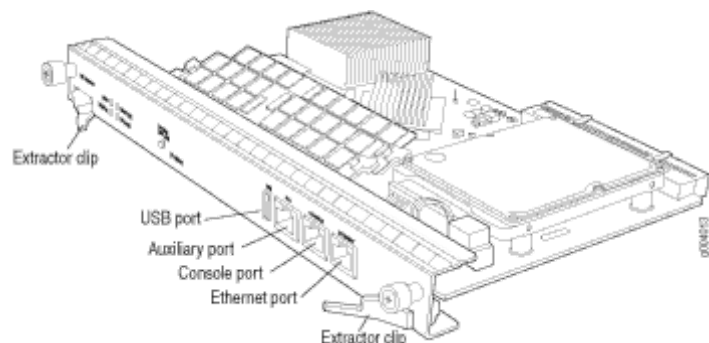


Routing Engine SRX5K-RE-13-20 Specifications

The SRX5K-RE-13-20 Routing Engine (Figure 1) is an Intel-based PC platform that runs the Junos operating system (Junos OS). Software processes that run on the Routing Engine maintain the routing tables, manage the routing protocols used on the device, control the device interfaces, control some chassis components, and provide the interface for system management and user access to the device.

Figure 1: Routing Engine



You must install at least one Routing Engine in the services gateway. You can install a second Routing Engine if both Routing Engines are running Junos OS Release 10.0 or later. A second Routing Engine is required if you are using the dual chassis cluster control link feature available in Junos OS Release 10.0 and later. The second Routing Engine does not perform all the functions of a Routing Engine and does not improve resiliency or redundancy. The second Routing Engine and the Switch Control Board (SCB) in which it is installed do not constitute a host subsystem. The only function of the second Routing Engine is to enable the hardware infrastructure that enables the chassis cluster control 1 port on the Services Processing Card (SPC) used for chassis cluster control links. If you install only one Routing Engine in the services gateway, you must install it in the slot in the front panel of SCB0. If you install a second Routing Engine to use the dual chassis cluster control link feature, you install it in the slot in the front panel of SCB1.

The Routing Engine consists of the following components:

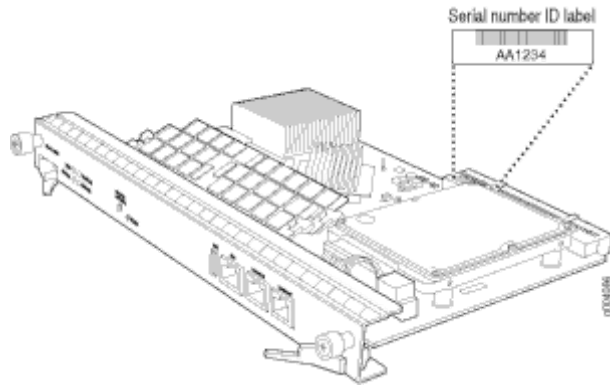
- CPU—Runs Junos OS to maintain the services gateway's routing tables and routing protocols. It has a Pentium-class processor.
- DRAM—Provides storage for the routing and forwarding tables and for other Routing Engine processes.
- USB port—Provides a removable media interface through which you can install Junos OS manually. Junos supports USB version 1.0.
- Internal flash disk—Provides primary storage for software images, configuration files, and microcode. The disk is a fixed compact flash and is inaccessible from outside the services gateway.
- Hard disk—Provides secondary storage for log files, memory dumps, and rebooting the system if the internal compact flash disk fails.
- HDD LED—Indicates disk activity for the hard disk drive.
- Management ports—Each Routing Engine has one 10/100-Mbps Ethernet port for connecting to a management network, and two asynchronous serial ports—one for connecting to a console and one for connecting to a modem or other auxiliary device. The interface ports are labeled `AUX`, `CONSOLE`, and `ETHERNET`.
- EEPROM—Stores the serial number of the Routing Engine.
- Extractor clips—Used for inserting and extracting the Routing Engine.
- Captive screws—Secures the Routing Engine in place.

The Routing Engine boots from the storage media in this order: the USB device (if present), then the internal flash disk, then the hard disk, then the LAN.



Note: For specific information about Routing Engine components (for example, the amount of DRAM), issue the `show chassis routing-engine` command.

| | |
|------------------------|---|
| Software release | <ul style="list-style-type: none"> Junos OS Release 9.2 and later Junos OS Release 10.0 and later required to install a second Routing Engine |
| Cables and connectors | <p>AUX—Connects the Routing Engine to a laptop, a modem, or another auxiliary device through a cable with an RJ-45 connector.</p> <p>CONSOLE—Connects the Routing Engine to a system console through a cable with an RJ-45 connector.</p> <p>ETHERNET—Connects the Routing Engine through an Ethernet connection to a management LAN (or any other device that plugs into an Ethernet connection) for out-of-band management.</p> |
| Controls | <ul style="list-style-type: none"> RESET button—Reboots the Routing Engine when pressed ONLINE/OFFLINE Button—Not supported in the current release |
| Supported Slots | <p>Front panel slot in an SCB installed in:</p> <ul style="list-style-type: none"> SRX5400: Bottom slot 0 SRX5600: Bottom slots 0 or 1 SRX5800: Center slots 0 or 1 <p>Note: The services gateway host subsystem Routing Engine must be installed in the SCB in slot 0. A Routing Engine installed in an SCB in slot 1 only enables dual control links in chassis cluster configurations.</p> |
| Power Requirement | 90 W |
| Weight | Approximately 2.4 lb (1.1 kg) |
| LEDs | <p>HDD LED:</p> <ul style="list-style-type: none"> Blinking green—The Routing Engine hard disk is functioning normally. <p>MASTER LED:</p> <ul style="list-style-type: none"> Blue—The Routing Engine is Primary. <p>Note: The SRX5400, SRX5600, and SRX5800 Services Gateways do not support a secondary or backup Routing Engine, so the MASTER LED should always be lit.</p> <p>OK/FAIL LED, one bicolor:</p> <ul style="list-style-type: none"> Off—The Routing Engine is operating normally. Red—The Routing Engine has failed and is not operating normally. <p>ONLINE LED:</p> <ul style="list-style-type: none"> Blinking green—The Routing Engine is coming online. Steady green—The Routing Engine is functioning normally. |
| Serial Number Location | <p>The serial number label is located on the right side of the top of the Routing Engine as shown in Figure 2</p> <p>Figure 2: Si</p> |



Modified: 2015-06-30