Overview

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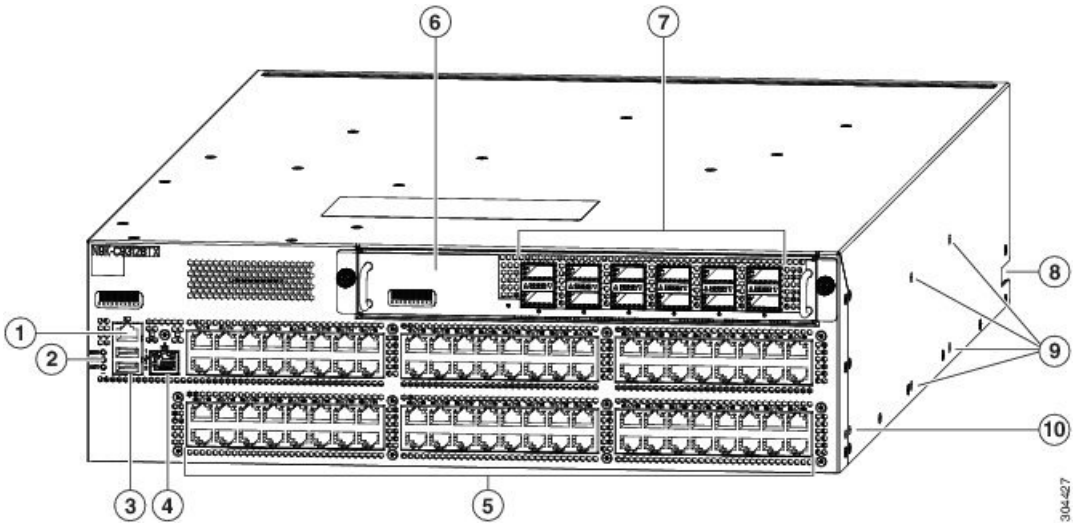
The Cisco Nexus 93128TX switch (N9K-C93128TX) is a 3-RU, fixed-port switch designed for spine-leaf-APIC deployment in data centers. This switch has 96 fixed 1/10GBASE-T (copper) ports for APIC connections and 12 fixed 40-Gigabit QSFP+ (optical) ports (of which you can use 8 ports) provided through an uplink module for connections to spine switches. The chassis for this switch includes the following user-replaceable components:

- Uplink modules (one of either of the following for uplink ports)
  - M6PQ uplink module
  - M12PQ uplink module
- Fan trays (three—two for operations and one for redundancy [2+1]) with the following airflow choices:
  - Cold-Air-In version with blue stripe at top (N9K-C9300-FAN2-B)
  - Hot-Air-Out version with burgundy stripe at top (N9K-C9300-FAN2)
- 1200-W AC Power supplies (two—one for operations and one for redundancy [1+1]) with the following airflow choices:
  - Cold-Air-In version with blue latch handle (N9K-PAC-1200W-B)
  - Hot-Air-Out version with burgundy latch handle (N9K-PAC-1200W)

The following figure shows the hardware features seen from the port side of the chassis.

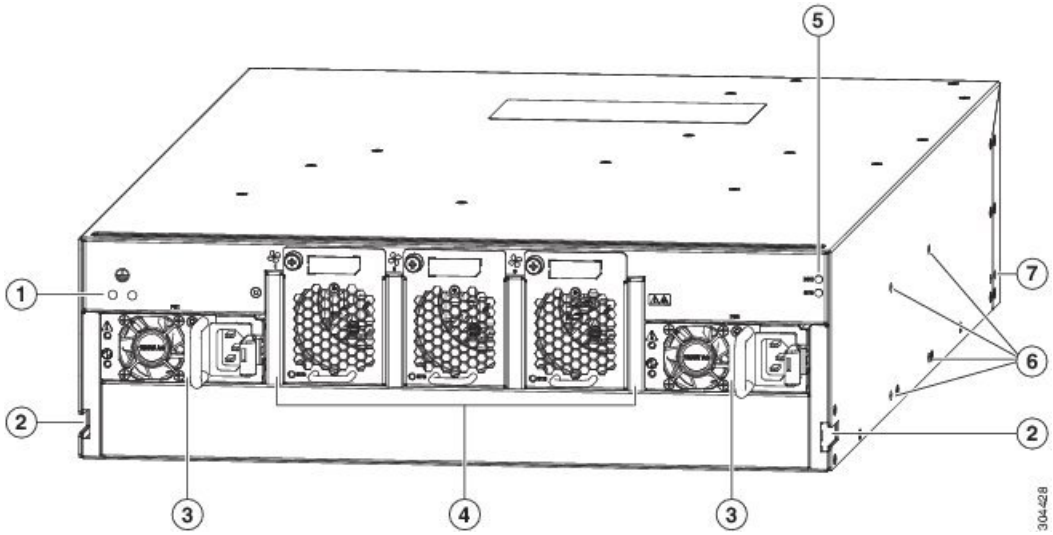
Figure 1: Hardware Features on the Port Side of the Chassis



1	Console port (RS232 port)	6	M6PQ or M12PQ uplink module (M12PQ uplink module shown).
2	Chassis LEDs • Beacon (BCN) • Status (STS) • Environment (ENV)	7	6 or 12 40-Gigabit Ethernet Quad Small Form-Factor Plugable (QSFP+) optical ports for uplink connections to spine switches (12-port uplink module shown) **Note** For the 12-port uplink module, only the left-most eight ports are available for uplinks when using this switch.
3	Two USB ports used for saving or copying functions **Note** USB support is limited to USB 2.0 devices that use less than 2.5 W (less than 0.5 A inclusive of surge current). Devices, such as external hard drives, that instantaneously draw more than 0.5 A are not supported.	8	Notch in both sides of the chassis for locking the power supply and fan tray end of the chassis to the bottom-support rails
4	Out-of-band management port (RJ-45 port)	9	Screw holes (4) for attaching a center-mount rack bracket for two-post racks (one bracket for each of two sides)
5	96 10GBASE-T copper ports (supporting speeds of 100 Megabits, 1 Gigabit, and 10 Gigabits) to Application Policy Infrastructure Controllers (APICs)	10	Screw holes (2) for attaching a front-mount bracket for four-post racks (one bracket on each of two sides)

The following figure shows the hardware features seen from the fan tray and power supply side of the chassis.

Figure 2: Hardware Features on the Fan Tray and Power Supply Side of the Chassis



1	Screw holes (2) for attaching the grounding lug.	5	Chassis LEDs include the following: • Beacon (BCN) • Status (STS)
2	A notch in both sides of the chassis for locking the power supply and fan tray end of the chassis to the bottom-support rails.	6	Screw holes (4) for attaching a center-mount rack bracket for two-post racks (one bracket for each of two sides).
3	Two 1200-W AC power supplies (one used for operations and one used for redundancy) of the following types: • Cold-Air-In version with blue latch handle (N9K-PAC-1200W-B) • Hot-Air-Out version with burgundy latch handle (N9K-PAC-1200W) Power supply slots are numbered 1 on the left and 2 on the right (as seen when looking at the power supplies).	7	Screw holes (2) for attaching a front-mount bracket for four-post racks (one bracket on each of two sides).

4	Three fan trays (two used for operations and one used for redundancy) of the following types: • Cold-Air-In version with blue stripe at top (N9K-C9300-FAN2-B) • Hot-Air-Out version with burgundy stripe at top (N9K-C9300-FAN2) Fan tray slots are numbered 1 (leftmost slot) to 3 (rightmost slot).		