R200 Report – T00193238

The model of Cisco switch being used in the R200 cabinet is the Cisco Catalyst 9300 series. More specifically the C9300 – NM – 8X. This system consists of the 3 individual modules all containing 48 ports a piece. The system is stackable and quite functional in a working environment. These modules also contain eight 10G SFP+ module slots. SFP+ is simply a way to support high-speed gigabit Ethernet. The port must be plus as the speed is a 10G connection. SFP is only able to support up to 4.25 Gbps whereas SFP+ is able to provide support for up to 16 Gbps. The SFP+ module is actually quite smaller than rival module switch systems and is now the most popular switch of its kind on the market today. It is important to note this simplicity in size as it allows for a more compact and refined networking solution to become mainstream.

Cabling is also an important part of the way in which a system like this operates. The C9300 uses RJ-45 connectors, 4-pair Cat 5E UTP cabling. It also makes efficient usage of Multigigabit-T ports: RJ-45 connectors, 4-pair Cat 5E, Cat 6, Cat 6A UTP cabling. Users of the C9300 can provide power to the switch by using the internal power and the Cisco StackPower provided by a different member in the power stack. Connectors for these devices can be found at the back of the switch. In terms of interfaces, the C9300 provides support for up to 2000 Switched Virtual Interfaces (SVIs). It has architecture allowing for interfaces which can integrate with third-party devices. The front panel of the switch will also feature uplink network module slots, a USB Type A connector, a USB mini-Type B port, LEDs, a Mode button and a UID button. The blue beacon on the front panel is a button labelled UID, and on the back panel it is a LED labelled BEACON.

The C9300 switch has very specific environmental specifications for its operation. It has an operating temperature range of between 23 and 113 degrees Fahrenheit. It needs a relative humidity of between 5 and 90% and an operating altitude of up to 3,000m. It has a physical dimension specifications of 1.73 x 17.5 x 19.2 in. These switches range in price from $3,500 to $5,300.

Further research on:

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9300/hardware/install/b\_c9300\_hig/b\_c9300\_hig\_chapter\_01001.html