

# N9K-C93180YC-FX Datasheet

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## Overview

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The Cisco Nexus N9K-C93180YC-FX is a 1RU switch with response of less than 1 microsecond that supports 3.6 Tbps of bandwidth and 1.2 bpps. The 48 downlink ports on the 93180YC-FX are proficient of supporting 1-, 10-, or 25-Gbps Ethernet or as 16-, 32-Gbps Fibre Channel ports, making a point of meeting for primary storage, back-end storage and computer servers, resources at the top of frame.

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| SKU                       | <a href="#">N9K-C93180YC-FX</a>                    |
| Ports                     | 48 x 1/10/25-Gbps and 6 x 40/100-Gbps QSFP28 ports |
| Downlink supported speeds | 1/10/25-Gbps Ethernet<br>16/32-Gbps Fibre Channel  |
| CPU                       | 6 cores                                            |
| System memory             | Up to 32 GB                                        |
| SSD drive                 | 128 GB                                             |
| System buffer             | 40 MB                                              |
| Typical power (AC/DC)     | 260W                                               |
| USB ports                 | 1                                                  |
| RS-232 serial ports       | 1                                                  |

## Product Details

### Cisco N9K-C93180YC-FX Provides the Following Features and Benefits:

- ① Architectural Flexibility
- ② Architectural Flexibility
- ③ High Scalability, Flexibility, and Security
- ④ Intelligent Buffer Management
- ⑤ RDME over Converged Ethernet – RoCE Support
- ⑥ LAN and SAN Convergence
- ⑦ Hardware and Software High Availability
- ⑧ Purpose-Built Cisco NX-OS Software Operating System with Comprehensive, Proven Innovations
- ⑨ Cisco Tetration Analytics Platform Support
- ⑩ Cisco Network Assurance Engine (NAE)

**Front Panel of Cisco N9K-C93180YC-FX**



|   |                                                        |
|---|--------------------------------------------------------|
| ① | Beacon [BCN], Status [STS], and Environment [ENV] LEDs |
| ② | 48 10/1-Gigabit RJ45 ports                             |
| ③ | 6 40/100-Gigabit QSFP28 ports                          |

**Rear Panel of Cisco N9K-C93180YC-FX.**



|   |                                                                                                                                                                  |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ① | Two power supplies (one used for operations and one used for redundancy) (AC power supplies shown) with power supply slot 1 on the left and slot 2 on the right. |
| ② | Four fan modules with fan slot 1 on the left and fan slot 4 on the right                                                                                         |
| ③ | Management port (RJ-45 port)                                                                                                                                     |
| ④ | Chassis LEDs (Beacon [BCN] and Status [STS])                                                                                                                     |
| ⑤ | USB port                                                                                                                                                         |
| ⑥ | Console port (RS232 port)                                                                                                                                        |
| ⑦ | Management port (SFP+ port)                                                                                                                                      |

## Compare Similar Products

| Product Name        | N9K-C93180YC-FX                                    | <a href="#">N9K-C93108TC-FX</a>                        | <a href="#">N9K-C93108TC-FX3P</a>                                              |
|---------------------|----------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------|
| Ports               | 48 x 1/10/25-Gbps and 6 x 40/100-Gbps QSFP28 ports | 48 x 100M/1/10GBASE-T and 6 x 40/100-Gbps QSFP28 ports | 48 x 1-GBASE-T ports, 4 x 1/10/25-Gbps SFP28 ports and 2 x 40/100 QSFP28 ports |
| CPU                 | 6 cores                                            | 4 cores                                                | 4 cores                                                                        |
| System memory       | Up to 32 GB                                        | 24 GB                                                  | 24 GB                                                                          |
| SSD drive           | 128 GB                                             | 128 GB                                                 | 128 GB                                                                         |
| System buffer       | 40 MB                                              | 40 MB                                                  | 40 MB                                                                          |
| USB ports           | 1                                                  | 1                                                      | 1                                                                              |
| RS-232 serial ports | 1                                                  | 1                                                      | 1                                                                              |

## N9K-C93180YC-FX Specification

| N9K-C93180YC-FX Specification          |                                                    |
|----------------------------------------|----------------------------------------------------|
| Hardware performance and scalability   |                                                    |
| Ports                                  | 48 x 1/10/25-Gbps and 6 x 40/100-Gbps QSFP28 ports |
| Downlink supported speeds              | 1/10/25-Gbps Ethernet<br>16/32-Gbps Fibre Channel  |
| CPU                                    | 6 cores                                            |
| System memory                          | Up to 32 GB                                        |
| SSD drive                              | 128 GB                                             |
| System buffer                          | 40 MB                                              |
| Management ports                       | 1 RJ-45 port<br>L1 and L2 ports are unused         |
| USB ports                              | 1                                                  |
| RS-232 serial ports                    | 1                                                  |
| Power supplies (up to 2)               | 500W AC, 930W DC, or 1200W HVAC/HVDC               |
| Typical power (AC/DC)                  | 260W                                               |
| Maximum power (AC/DC)*                 | 425W                                               |
| Input voltage (AC)                     | 100 to 240V                                        |
| Input voltage (High-Voltage AC [HVAC]) | 200 to 277V                                        |
| Input voltage (DC)                     | –48 to –60V                                        |
| Input voltage (High-Voltage DC [HVDC]) | –240 to –380V                                      |
| Frequency (AC)                         | 50 to 60 Hz                                        |
| Fans                                   | 4                                                  |

|                                    |                                                                                    |
|------------------------------------|------------------------------------------------------------------------------------|
| Airflow                            | Port-side intake and exhaust                                                       |
| Physical dimensions<br>(H x W x D) | 1.72 x 17.3 x 22.5 in.<br>(4.4 x 43.9 x 57.1 cm)                                   |
| Acoustics                          | 57 dBA at 40% fan speed, 68.9 dBA at 70% fan speed, and 77.4 dBA at 100% fan speed |
| RoHS compliance                    | Yes                                                                                |
| MTBF                               | 238,470 hours                                                                      |
| Environmental properties           |                                                                                    |
| Operating temperature              | 32 to 104°F (0 to 40°C)                                                            |
| Nonoperating (storage) temperature | −40 to 158°F (−40 to 70°C)                                                         |
| Humidity                           | 5 to 95% (non condensing)                                                          |
| Altitude                           | 0 to 13,123 ft (0 to 4000m)                                                        |