



## Cisco NCS 1004 Overview

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This chapter provides an overview for Cisco NCS 1004.

- [Cisco NCS 1004 Overview](#) , on page 1
- [Supported Pluggables](#), on page 4

## Cisco NCS 1004 Overview

The Cisco NCS 1004 chassis is a 2RU chassis that delivers a universal transponder solution which provides excellent performance for metro, long-haul and submarine applications.

The Cisco NCS 1004 has the following modules:

- Removable controller
- Two replaceable power supply units (PSU)
- Three replaceable fan units
- Four line card slots

For more information about the Cisco NCS 1004 chassis, the NCS1K4-1.2T-K9 ( or 1.2 Tbps) C-band line card, the NCS1K4-1.2TL-K9 (800 Gbps) L-band line card, the NCS1K4-2-QDD-C-K9 (800 Gbps) C-band line card and the OTN-XP line card, see [Cisco NCS 1004 datasheet](#).



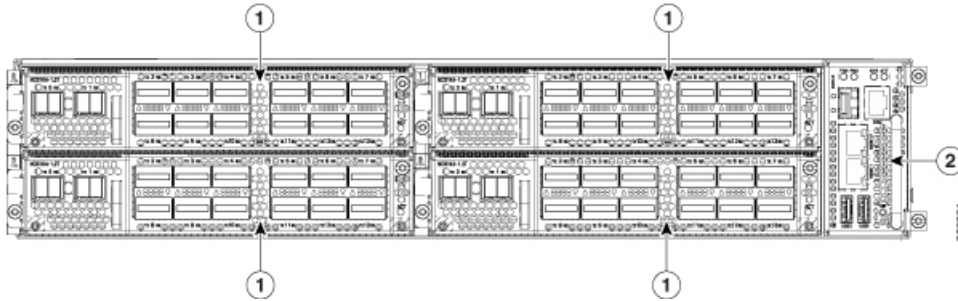
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**Note** "1.2T" refers to the NCS1K4-1.2T-K9 C-band line card, "1.2TL" refers to the NCS1K4-1.2TL-K9 L-band line card, and "2-QDD-C" refers to the NCS1K4-2-QDD-C-K9 C-band line card.

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The controller is on the front side. The PSUs and the fan units are on the rear side of the chassis. The line cards can be inserted in to the four slots as shown in the following figure.

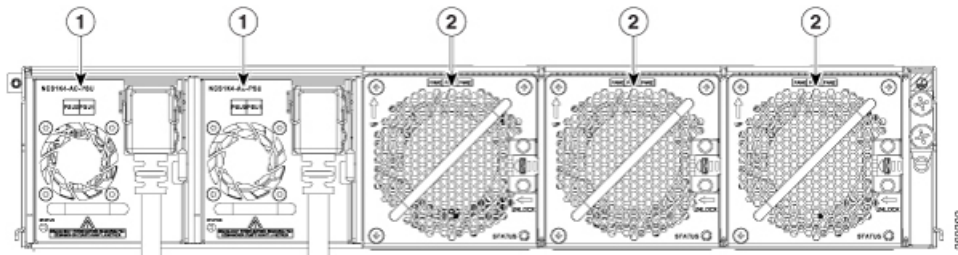
Figure 1: NCS 1004 Front View



1	Line Cards
2	Controller

The slots for the PSUs and fan units are indicated in the following figure.

Figure 2: NCS 1004 Rear View

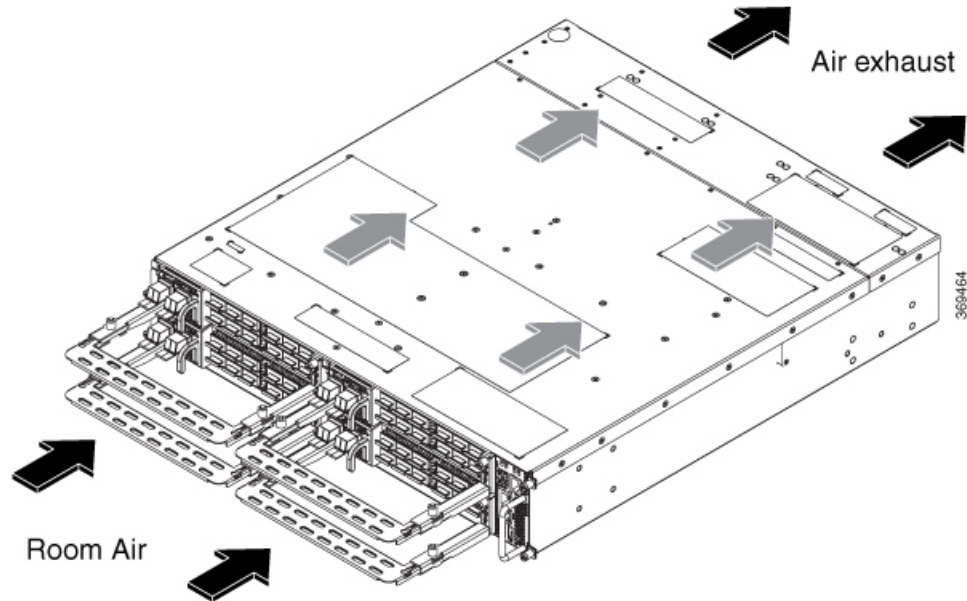


1	Power Supply Units (Slots 0 and 1)
2	Fan Units (Slots 0,1,2)

Both the power supply modules should be AC or DC. Mixed configuration is not allowed.

Cisco NCS 1004 has a front to back airflow scheme. The air inlet is at the front side of the chassis and the exhaust is on the rear side. Ensure that the airflow is not obstructed or impeded by any object as it may lead to reduced airflow in the system, causing components to operate at a higher temperature.

Figure 3: Airflow in NCS 1004



#### Class 1M Laser Product Label

The Class 1M Laser Product label is shown in the following figure.

Figure 4: Class 1M Laser Product Label



Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

Conforme à la norme 21 CFR 1040.10 et 1040.11, sauf conformité avec la norme IEC 60825-1 Ed. 3., comme décrit dans l'avis relatif au laser no. 56, daté du 8 Mai 2019.

# Supported Pluggables

*Table 1: Feature History*

Feature Name	Release	Description
Pluggables Support	Cisco IOS XR Release 7.3.1	<p>The following pluggables are supported:</p> <ul style="list-style-type: none"> <li>• QSFP-40/100-SRBD</li> <li>• QSFP-100G-ER4L-S</li> <li>• QSFP-DD QDD-400G-FR4-S</li> <li>• QDD-400-AOCxM</li> </ul>

The following pluggables are supported on NCS 1004:

- QSFP-100G-SR4-S
- QSFP-100G-CWDM4-S
- QSFP-100G-SM-SR
- QSFP-100G-AOC-1M
- QSFP-100G-AOC-3M
- QSFP-100G-AOC-10M
- QSFP-100G-LR4-S
- QSFP-100G-CU1M
- QSFP-100G-CU2M
- QSFP-100G-CU3M
- QSFP-100G-CU5M
- QSFP-100G-DR-S
- QSFP-100G-FR-S
- ONS-QSFP28-LR4
- ONS-QSFP-4X10-MLR (supported only on OTN-XP card)
- QSFP-40/100-SRBD
- QSFP-100G-ER4L-S
- QSFP-DD QDD-400G-FR4-S
- QDD-400-AOCxM