



## Overview

This chapter contains the following topics:

- [Overview, on page 1](#)
- [Front Panel, on page 1](#)

## Overview

The Cisco UCS X10c Front Mezzanine GPU module is a passive PCIe Gen 4 front mezzanine option for Cisco UCS X-Series compute nodes. The module is a mixed mode assembly that provides both storage and GPU acceleration.

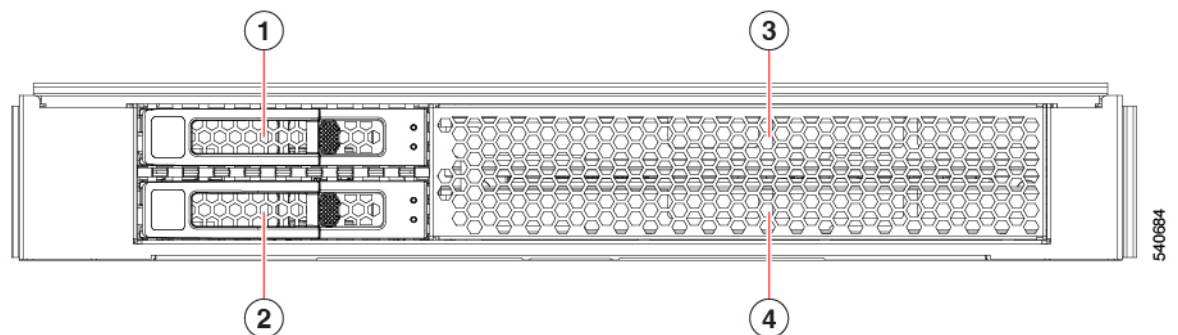
Each Cisco UCS X10c front mezzanine GPU module consists of the following components:

- A GPU adapter card supporting zero, one or two, Cisco T4 GPUs (UCSX-GPU-T4-MEZZ).  
Each GPU is connected directly into the GPU adapter card by a x8 Gen 4 PCI connection.
- A storage adapter and riser card supporting zero, one, or two U.2 NVMe drives. NVMe RAID is supported through Intel VROC key.

## Front Panel

The front mezzanine GPU module supports up to 2 U.2 NVMe drives and up to 2 GPUs.

In the following illustration, the top row of the module is slot 1 and the bottom row of the module is slot 2.



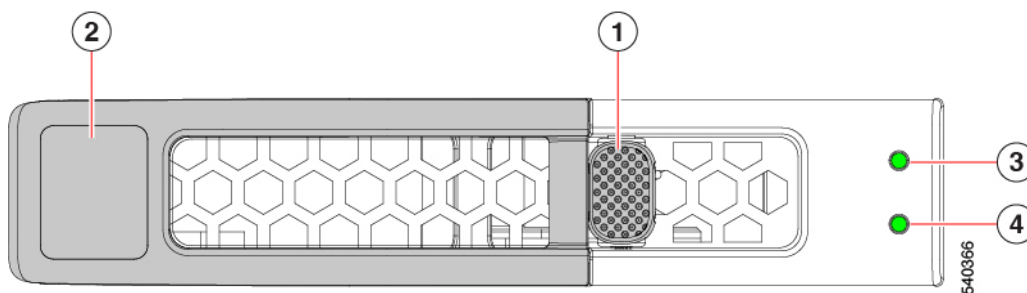
1	U.2 NVMe drive slot 1	3	GPU slot 1
2	U.2 NVMe drive slot 2	4	GPU slot 2

## Drive Bays

Each Cisco UCS X10c Front Mezzanine GPU Module has a front mezzanine slot that can support a maximum of two 2.5-inch U.2 NVMe drives. A drive blank panel (UCSC-BBLKD-S2) must cover any empty drive bays.

## Drives and Drive LEDs



Each U.2 is a front-loading drive that slides into and out of the front mezzanine module's storage cage.



1	Drive Ejector button	2	Drive Ejector
3	Drive Activity LED	4	Drive Status LED

Each U.2 drive also has a pair of LEDs that indicate drive health and activity.

Table 1: Drive LEDs

LED	Color	Description
Drive Activity 	Off	Inactive.
	Flashing Green	I/O activity.
	Flashing Green	If this LED is flashing green and the Drive Health LED is simultaneously flashing amber, a drive rebuild is in progress.
Drive Health 	Off	No fault detected, the drive is not installed, or it is not receiving power.
	Amber	Fault detected
	Flashing Amber 4 Hz	If this LED is flashing amber and the Drive Activity LED is flashing green simultaneously, a drive rebuild is in progress.