## Overview

### HPE ProLiant DL380 Gen11 8SFF NC CTO Server

Technical model P52534-B21 and environments, the secure HPE ProLiant DL380 Gen11 delivers world-class performance with the right balance of expandability and scalability. Designed for supreme versatility and resiliency while being backed by a comprehensive warranty make it ideal for multiple environments from Containers to Cloud to Big Data. Standardize on the industry's most trusted compute platform.
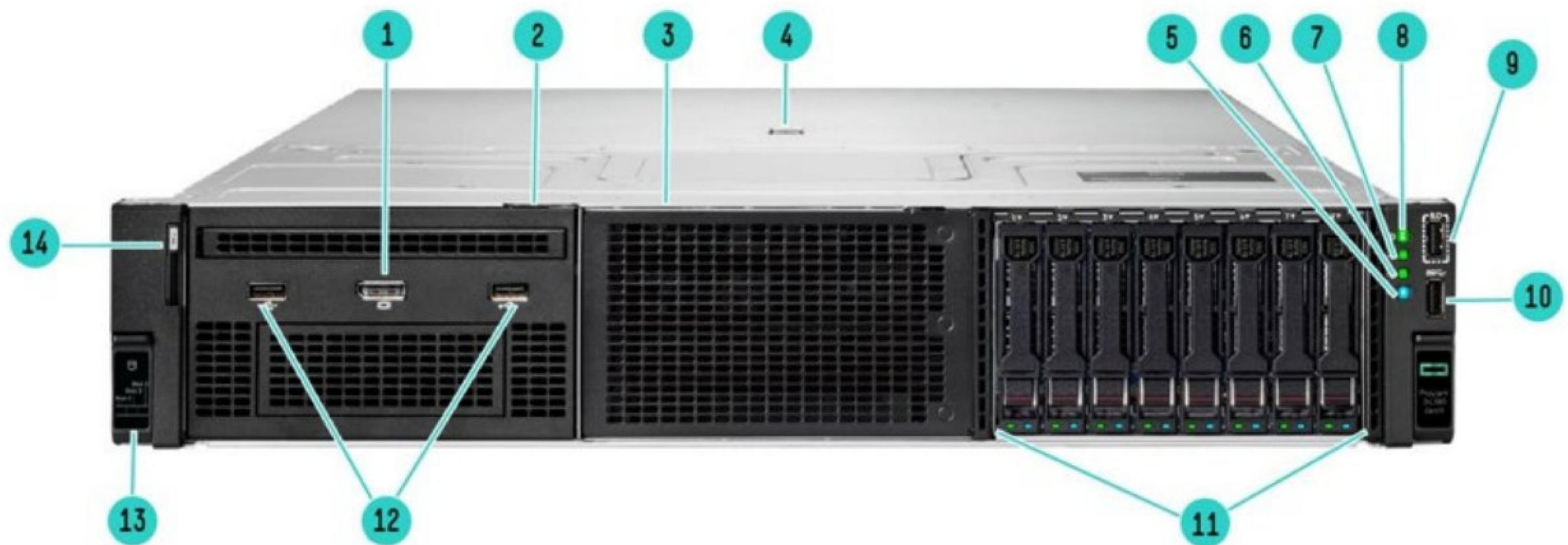
Front View – 8SFF NC CTO-(P52534-B21) chassis with optional Universal Media bay shown

1. Optional Front Display Port (via Universal Media Bay}
2. Box **1** (shown with optional Universal Media Bay installed}
3. Box 2 (shown blank}
4. Quick removal access panel
5. UID button/LED
6. NIC Status
7. Health LED
8. Power On **/** Standby button and LED
9. iLO Service Port
10. USB 3.0
11. Box 3 (shown with 8SFF drives populated}
12. Optional USB 2.0 (via Universal Media Bay}
13. Drive Support Label
14. Serial Number Label Pull Tab

Overview
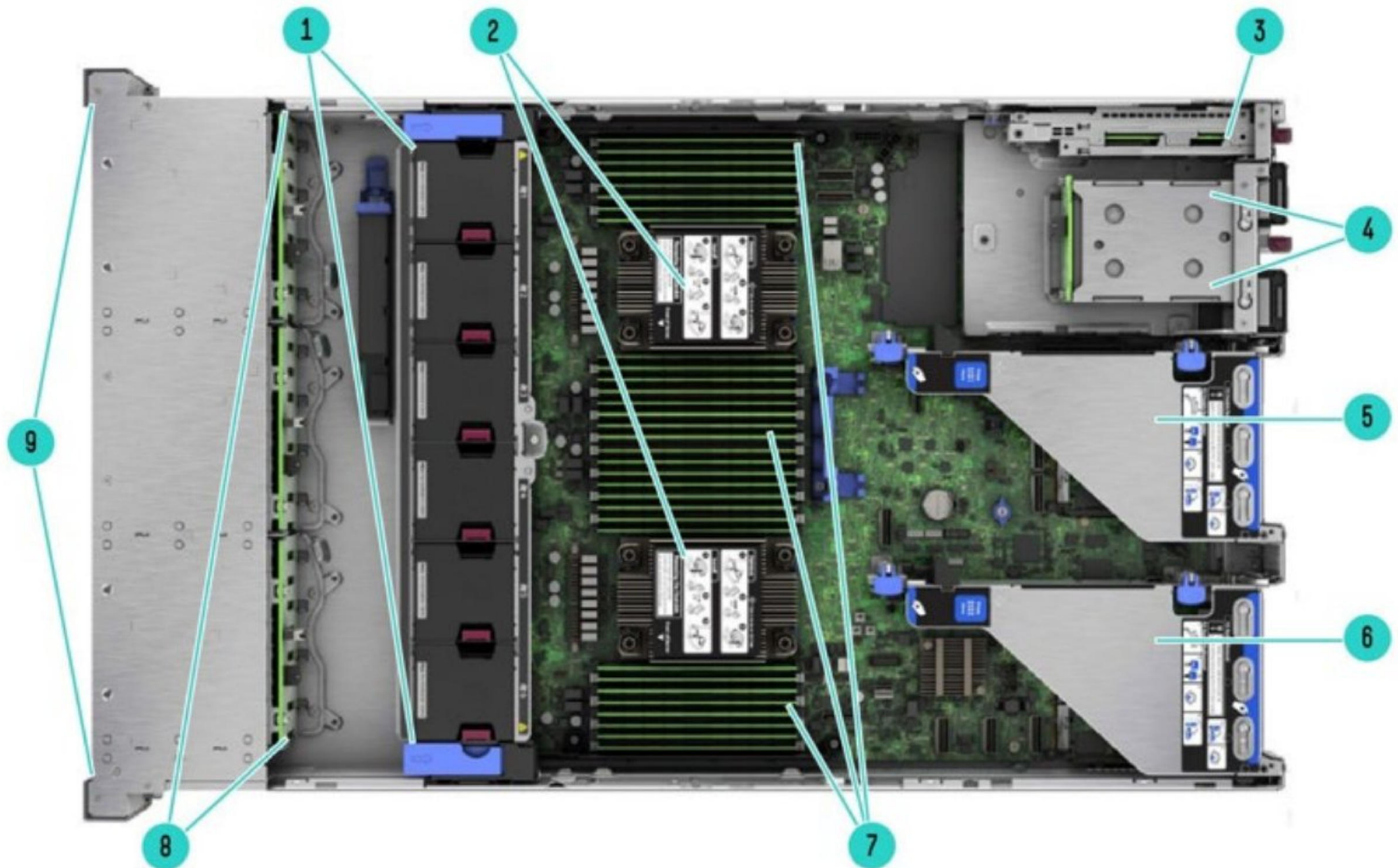
Internal View 8SFF chassis

1.   Hat Plug Fans1-(P52534-B21)
2.   Processors, heatsinks showing
3.   Optional NS204i-u Boot Device
4.   Hot Plug redundant HPE Flexible Slot Power Supplies
5.   Secondary Riser (Optional) (Requires second processor)

6.   Primary Riser
7.   DDR5 DIMM slots, shown fully populated in 32 slots1[2]
8.   Drive Backplanes
9.   Drive Cages

Notes:

–   xHigh performance temperature fans optional
–   2Shown fully populated in 32 slots (16 per processor)

Overview
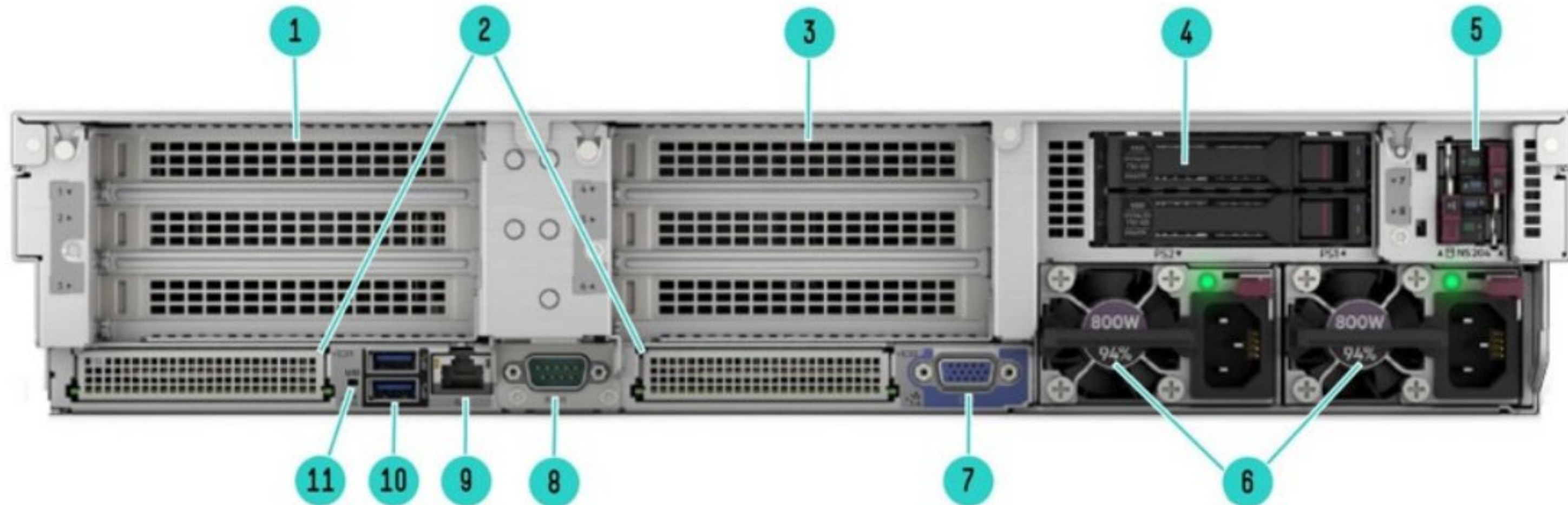
Rear View – Standard for all DL380 Gen11

1. Primary Riser. PCIe 5.0 Slots (Slots 1-3)
2. OCP 3.0 Slots, shown covered
3. Secondary Riser. PCIe 5.0 Slots (Slots 4-6)
4. Tertiary Riser (Slots 7-8) shown with optional 2SFF drive cage installed
5. Optional NS204i-u Boot Device

6. Power Supply 1 and 2
7. VGA Connector
8. Optional Serial Port
9. Dedicated iLO Management Port
10. USB 3.0 Connectors (2)
11. UID Indicator LED

Notes: [1] Supports various NICs, and Storage controllers.

What's New

- All new DL380 Gen11
- New 4th Generation Intel Scaleable Processors
- New PCIe 5.0 support
- New DDR5 SmartMemory – 4800MT/s
- New Storage Controllers
- New NS204i-u Boot Device
- New SSDs and HDDs

Overview

Platform Information

Form Factor
- 2U rack

Chassis Types
- 8SFF (SAS/SATA/NVMe) with optional SFF Universal Media Bay (P52534-B21), and/or up to 6SFF rear drive bay options
- 24SFF bay (SAS/SATA/NVMe) with up to 6SFF rear drive bay options to a total 30 SFF drives
- 8LFF supporting 2SFF front and up to 4LFF rear or 2SFF rear drive bay options
- 12LFF with optional 4LFF rear for a total 16LFF drives

Notes:
- The 8SFF chassis can be upgraded to support up to 24SFF (front) with a variety of 8SFF Drive Cages to select from, including 8SFF U.3 x4/x2 Trimode, 8SFF U.3 (x1 Trimode), and 8SFF SAS/SATA. See "Drive Cages" section within this document for options.
- The 8SFF chassis comes with an 8SFF U.3 x1 drive bay by default in bay 3.
- The Universal Media Bay (P50728-B21) is only available as an option for the 8SFF chassis and can only be populated in Box 1.
- The 2 LFF primary and 2LFF secondary rear cages will consume all PCIe slots for the primary and secondary riser, respectively
- The 8 LFF chassis cannot be upgraded to 12 LFF front in the field.
- The 2 LFF primary and 2LFF secondary rear cages supported in LFF chassis only.

System Fans
- High Performance Fan Kit – required for all CPUs over 205W TDP

Notes:
- On 8SFF CTO server models ship with 4 standard fans.
- The 12 LFF and 8LFF CTO server models ship with 4 standard fans.
- The 24 SFF CTO server model ships with 6 high performance fans.