



## **cuPHY Software Manifest**

# Table of contents

[Aerial CUDA-Accelerated RAN Software Manifest](#)

---

[Kubernetes Software Manifest](#)

---

Release Version: 24-1

## Aerial CUDA-Accelerated RAN Software Manifest

Description	Revision
Host OS	<ul style="list-style-type: none"><li>• x86 platform: Ubuntu 22.04 with 5.15.0-1042-nvidia-lowlatency kernel</li><li>• Grace Hopper platform: Ubuntu 22.04 with 6.2.0-1012-nvidia-64k kernel</li></ul>
AX800	<ul style="list-style-type: none"><li>• CUDA Toolkit: 12.2.0</li><li>• GPU Driver (OpenRM): 535.54.03</li><li>• BFB: DOCA_2.5.0_BSP_4.5.0_Ubuntu_22.04-1.23-10.prod.bfb</li><li>• NIC FW: 32.39.2048</li></ul>
A100X	<ul style="list-style-type: none"><li>• CUDA Toolkit: 12.2.0</li><li>• GPU Driver (OpenRM): 535.54.03</li><li>• BFB: DOCA_2.5.0_BSP_4.5.0_Ubuntu_22.04-1.23-10.prod.bfb</li><li>• NIC FW: 24.39.2048</li></ul>
A100	<ul style="list-style-type: none"><li>• CUDA Toolkit: 12.2.0</li><li>• GPU Driver (OpenRM): 535.54.03</li></ul>
BFB3 NIC	<ul style="list-style-type: none"><li>• BFB: DOCA_2.5.0_BSP_4.5.0_Ubuntu_22.04-1.23-10.prod.bfb</li><li>• NIC FW: 32.39.2048</li></ul>
CX6-DX NIC	NIC FW: 22.39.2048 <b>Note:</b> If the CX6-DX NIC is used to run RU emulator on dual ports, downgrade the NIC FW to 22.35.1012 due to a known issue.
DOCA OFED	23.10-1.1.9 <b>Note:</b> DOCA OFED is only required by Grace Hopper platform. It is not required for x86 platform.
NVIDIA-peermem	<b>Note:</b> Aerial has been using kernel DMA-buf instead of nvidia-peermem since 23-4 release. It is not required anymore.
GDRCopy	2.4.1
DPDK	22.11 (Included in Mellanox DOCA)
DOCA	2.5

NV Container Toolkit	1.14
SCF	222.10.02 (partial upgrade to 222.10.04)
Server	<ul style="list-style-type: none"> <li>• Gigabyte(E251-U70) with Intel(R) Xeon(R) Gold 6240R CPU @ 2.40GHz</li> <li>• Dell PowerEdge R750 with dual Intel(R) Xeon(R) Gold 6336Y CPU @ 2.40GHz</li> <li>• Supermicro Grace Hopper MGX ARS-111GL-NHR (Config 2)</li> </ul>
GPU	AX800, A100X, A100, GH200 (Early Access)

**Note**

Aerial has been using DMA-buf, inbox driver and OpenRM driver since 23-4 release. So MOFED and nvidia-peermem are not needed anymore. On the x86 platform, the 5.15 kernel with DMA-buf and inbox driver are used. On the Grace Hopper platform, the 6.2 kernel with DMA-buf and DOCA OFED are used.

## Kubernetes Software Manifest

Description	Revision
Host OS	Ubuntu 22.04 with 5.15.0-1042-nvidia-lowlatency
Container OS	Ubuntu 22.04
Containerd	1.5.8
Kubernetes	1.23
Helm	3.8
Network Operator	23.4.0

CX6-DX NIC FW	22.39.2048
A100X NIC FW	24.39.2048
GPU Operator	23.6.0
CUDA Toolkit	12.2.0
NVIDIA GPU Driver	535.54.03

© Copyright 2024, NVIDIA.. PDF Generated on 06/06/2024