



Installation Guide

The following sections will guide you through the process of integrating and deploying ARC-OTA for advanced 5G and 6G research:

<u>Part 1 – Procure the Hardware</u>	Procure all the required hardware based on the published BOM in this document.
<u>Part 2 – Configure the Network Hardware</u>	Perform setup on the required network devices.
<u>Part 3 – Configure gNB Server</u>	Install the kernel command line specific to ARC-OTA.
<u>Part 4 – Install ARC-OTA Using SDK Manager</u>	Use the SDK Manager to install ARC-OTA.
<u>Part 5 – Set up Aerial CUDA-Accelerated RAN Layer 1 with OAI gNB and CN5G (For Debug Only)</u>	This installation method is for debug purposes only. Instead of using SDK Manager to install ARC-OTA, all necessary software components are installed manually.
<u>Part 6 – Validate the Setup</u>	Validate the setup using bi-directional UDP.

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