



Qualcomm Linux Landing Page

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1 Qualcomm Linux 1.4 Documentation Home

Welcome to the documentation for Qualcomm® Linux® 1.4.

1.1 Get started



Development kits

Get the essentials about your integrated development kit.

Hardware SoCs

Resources for supported platform system on chips.



SDK overview

Introduction to Qualcomm software development kits.

1.2 Key tasks



Setup

- [Dev kit quick start](#)
- [Dev kit user guide](#)
- [Virtual machine setup](#)



Build

- [Build guide](#)
- [Yocto guide](#)
- [Linux kernel guide](#)



Development

- [AI developer workflow](#)
- [Sample applications \(AI, Multimedia, Python\)](#)
- [Sample applications \(Robotics\)](#)



Optimization

- [Performance guide](#)
- [Power and thermal](#)



Debug

- [Debug guide](#)

Note: You must ensure that the following versions of software are used: **Ubuntu 22.04** for the Host Machine, **Qualcomm Linux 1.4**, **Qualcomm AI SDK 2.32**, and **TensorFlow Lite (TFLite) 2.16.1 (currently known as Lite Runtime or LiteRT)**. You can verify your current version and upgrade the software by visiting [Check Qualcomm Linux version](#).

1.3 Software



Qualcomm Linux 1.4

- [Release notes](#)
- [Migration guide](#)

- [Software overview](#)



SDKs

- [Qualcomm AI Engine Direct SDK](#)
- [Qualcomm Intelligent Multimedia SDK](#)
- [Qualcomm Intelligent Multimedia Product \(QIMP\) SDK](#)
- [Qualcomm Intelligent Robotics Product \(QIRP\) SDK](#)
- [Qualcomm Neural Processing SDK](#)
- [Lite Runtime](#)



Qualcomm Software Center

- [User guide](#)

1.4 Technologies



AI

- [Developer guide](#)



Audio

- [Developer guide](#)



Bluetooth

- [Developer guide](#)



Boot

- [Developer guide](#)



Camera

- [Developer guide](#)



Cellular

- [Developer guide](#)



Display

- [Developer guide](#)



Ethernet

- [Developer guide](#)



Graphics

- [Developer Guide](#)



Interfaces

- [Developer guide](#)



Location

- [Developer Guide](#)



Memory and storage

- [Memory guide](#)
- [Storage guide](#)



Security

- [Developer guide](#)



Sensors

- [Developer guide](#)



Video

- [Developer guide](#)



Vision

- [Developer guide](#)



Wi-Fi

- [Developer guide](#)

2 Development Kits

This Qualcomm Linux release supports the following hardware development kits:

- Qualcomm Dragonwing™ RB3 Gen 2 Vision Development Kit (*QCS6490*)
- Qualcomm Dragonwing™ RB3 Gen 2 Core Development Kit (*QCS6490*)
- Qualcomm Dragonwing™ RB3 Gen 2 Lite Vision Development Kit (*QCS5430*)
- Qualcomm Dragonwing™ RB3 Gen 2 Lite Core Development Kit (*QCS5430*)
- Qualcomm Dragonwing™ IQ-9075 Evaluation Kit (EVK) (*QCS9075*)

Qualcomm Dragonwing™ RB3 Gen 2 Development Kit

- [RB3 Gen 2: Product Overview](#)
- [RB3 Gen 2: Docs Homepage](#)
- [RB3 Gen 2: Quick Start Guide](#)
- [RB3 Gen 2: User Guide](#)

Qualcomm Dragonwing™ IQ-9075 Evaluation Kit (EVK)

- [IQ-9075: Product Overview](#)
- [IQ-9075: Docs Homepage](#)
- [IQ-9075: Quick Start Guide](#)
- [IQ-9075: User Guide](#)

3 Hardware SoCs

This Qualcomm Linux release supports the following SoC platforms:

QCS6490

- [QCS6490: Product Overview](#)
- [QCS6490: Documentation Homepage](#)
- [QCS6490: Data Sheet](#)

QCS5430

- [QCS5430: Product Overview](#)
- [QCS5430: Documentation Homepage](#)
- [QCS5430: Data Sheet](#)

QCS9075

- [QCS9075: Product Overview](#)
- [QCS9075: Documentation Homepage](#)
- [QCS9075: Data Sheet](#)

QCS8275

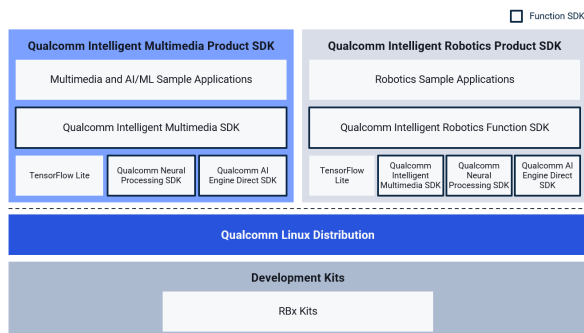
- [QCS8275: Product Overview](#)
- [QCS8275: Documentation Homepage](#)
- [QCS8275: Data Sheet](#)

QCS615

- [QCS615: Product Overview](#)
- [QCS615: Documentation Homepage](#)
- [QCS615: Data Sheet](#)

4 SDK Overview

Qualcomm® offers a set of SDKs to support the development of AI/ML, multimedia, and robotics applications for the Qualcomm® Linux® software environment. Each product SDK contains a collection of function SDKs and sample applications and is available as an SDK specific distribution which is separate from the Qualcomm Linux software distribution.



Overview

This video explores the Qualcomm Linux SDKs, and will teach you how to run four concurrent AI inferences using them:

Product SDKs

Product SDK	Description
Qualcomm Intelligent Multimedia Product (QIMP) SDK	Provides an environment for developing applications for AI and multimedia use cases.
Qualcomm Intelligent Robotics Product (QIRP) SDK	Provides an environment for developing applications for general robotics use cases.

Note: When you download a product SDK, the function SDKs that are packaged within that product SDK will be installed.

Function SDKs

Function SDK	Description
Qualcomm Neural Processing SDK	Provides a software accelerated runtime environment for executing deep neural networks.
Qualcomm AI Engine Direct SDK	Provides a unified API and modular per accelerator libraries for full stack AI solutions.
Qualcomm Intelligent Multimedia SDK	Provides Qualcomm hardware accelerated plugins for optimized multimedia application development.

Next Steps

To begin your own AI application development project, refer to the [AI Developer Workflow](#) to learn how to set up your development environment and get started working with AI models and applications.

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