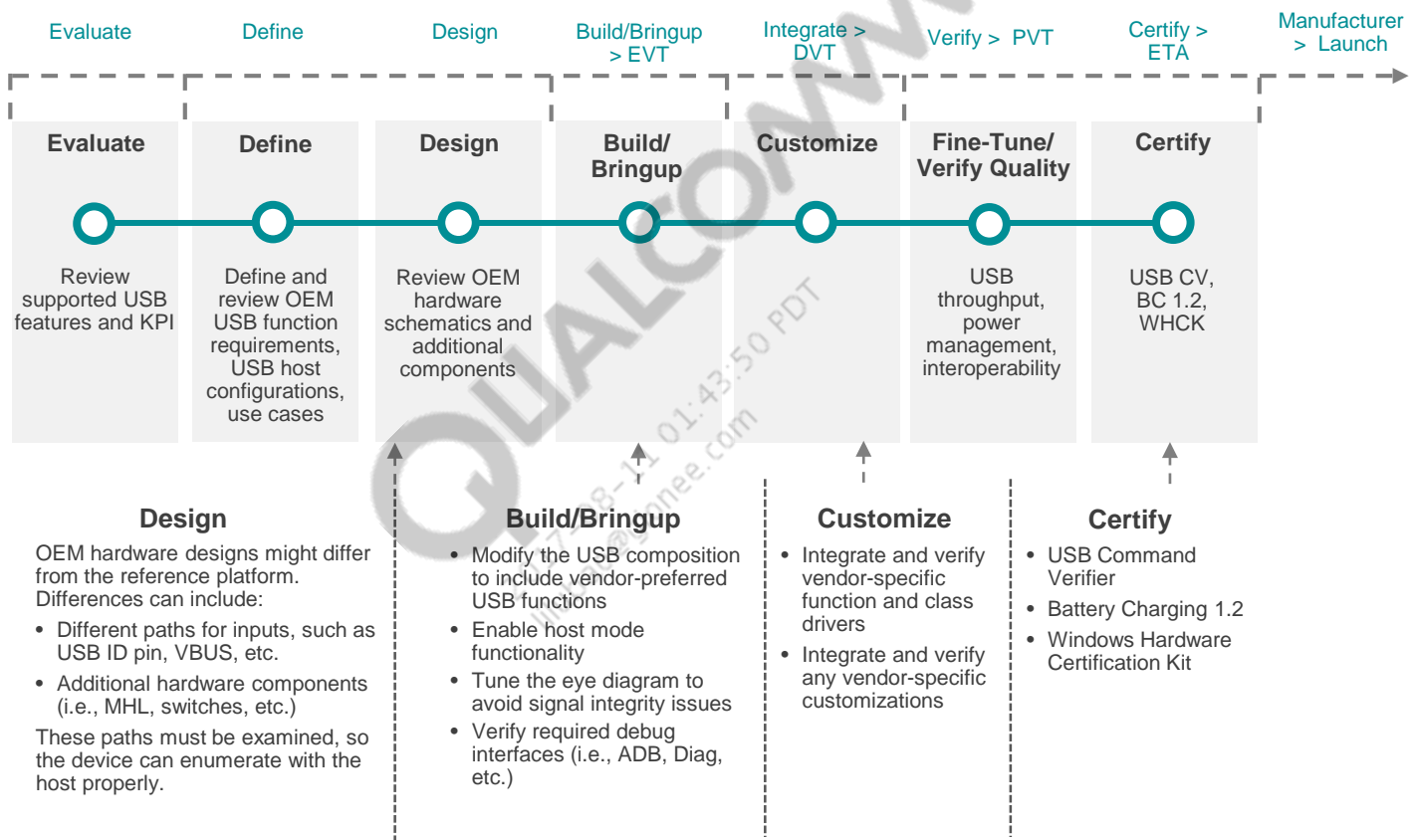


# MSM8937/MSM8940 USB Quick Start

## Overview

This customer guide summarizes the QTI-recommended process, tools, and resources to efficiently develop USB-related features on MSM8937/MSM8940 projects.

## Stages of development



## Resources

Applicable to all stages: Linux USB Overview [80-P2485-17](#)

### Evaluate

Linux USB Overview  
(sections: Linux USB features; and USB KPIs)  
[80-P2485-17](#)

### Define/Design

Linux USB Overview  
[80-P2485-17](#)  
Hardware Design  
(section: Dedicated connectivity ports (SDC2, HS-USB))  
[80-P2468-5B](#)

### Build/Bringup

Linux USB Implementation Guide  
(sections: USB composition design; and Debugging guidelines)  
[80-NF238-1](#)  
Tuning the USB PHY [80-NA648-1](#)

### Customize

Linux USB Implementation Guide  
(sections: Linux USB function driver overview; and Debugging guidelines)  
[80-NF283-1](#)  
PC USB Network Driver  
[80-VB717-1](#)  
PC USB Host Driver  
[80-V4609-1](#)

### Fine-tune/Verify Quality/Certify

Linux USB Implementation Guide (section: Debugging guidelines)  
[80-NF283-1](#)  
For certification, see next page.

# USB Certification

## How to get a USB logo

To get the USB-IF logo on the OEM device, customers must get a vendor ID and fill in the USB compliance checklist. They must also participate in the USB-IF sponsored Compliance Workshop or contact the independent test labs listed on the [www.usb.org](http://www.usb.org) website as follows:

- <http://www.usb.org/developers/compliance/>
- <http://www.usb.org/developers/compliance/highspeed/>

### USB Compliance

To achieve USB compliance standards, refer to the following documents published by Qualcomm:

- *Linux USB Implementation Guide* ([80-NF283-1](#)), (Chapter 10 USB Compliance and Verification)
- *Application Note: Tuning the 28/20nm USB PHY Eye Diagram and Receiver Sensitivity* ([80-NA648-1](#))

## How to file cases for USB issues

### Select problem area for USB issues

You can file cases for the following problem areas:

- PA1 – BSP/HLOS
- PA2 – Drivers: USB/HSIC

### Remember to provide necessary information

- Dump and symbol files (vmlinux and ELF files) matching to the dump
- Test scenario, frequency of the issues, reproducibility
- Software versions when the issue first reported
- USB eye diagram for compliance issues
- USB scopeshots for electrical issues
- USB analyzer log for data stalls, protocol issues, and throughput issues

## Did you know?

Based on the type of USB case you file, the case system immediately sends you an email with a list of documents that could help resolve your issue.

QTI greatly appreciates your suggestions on improving the quality of USB features, Tools, Documents, Support, etc. All it takes to improve your QTI USB experience is an email to [Usb.Feedback@qti.qualcomm.com](mailto:Usb.Feedback@qti.qualcomm.com) with your feedback.

## Contact Us

Through email:  
[Usb.Feedback@qti.qualcomm.com](mailto:Usb.Feedback@qti.qualcomm.com),  
through your assigned Technical Account Manager,  
or visit us at <https://createpoint.qti.qualcomm.com>



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