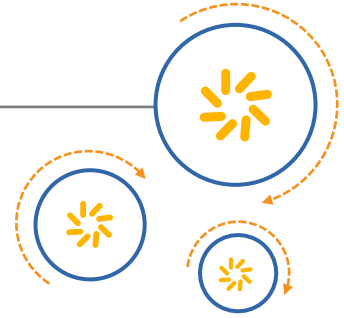




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Qualcomm Technologies, Inc.



# WCN3660B

## Device Revision Guide

LM80-P0436-71 Rev. A

May 1, 2017

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## Revision history

Revision	Date	Description
A	May 2017	Initial release

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# 1 Introduction

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This document provides a description of chipset capabilities. Not all features are available, nor are all features supported in the software.

**NOTE** Enabling some features may require additional licensing fees.

This device revision guide addresses the WLAN/Bluetooth/FM and RF solution used in the Qualcomm® Snapdragon™ 410E (APQ8016E) processor.

Technical information for the *WCN3660B Device Revision Guide* is covered by the documents listed in the following table:

Document number	Document title
LM80-P0436-70	<i>WCN3680B/WCN3660B Device Specification</i>
LM80-P0436-71	<i>WCN3660B Device Revision Guide</i> (this document)

## 1.1 Scope and intended audience

This device revision guide identifies issues with all WCN3660B samples released to date. The following information is included:

- Introduction to this document and its topics ([Chapter 1](#))
- Device identification ([Chapter 2](#))
  - Device marking
  - Hardware revision number
  - Identification details for each sample type
  - Sample testing – engineering sample (ES) and customer sample (CS) explanations
  - Identification of compatible software releases
- Known issues ([Chapter 3](#))
  - Issue description
  - Impact to system performance
  - Possible workarounds (what can be done to minimize the impact of the issue)

This document is intended for new product developers who are designing, testing, and/or evaluating products containing the WCN3660B device.

## 1.2 Acronyms, abbreviations, and terms

The following table provides definitions for the acronyms, abbreviations, and terms used in this document.

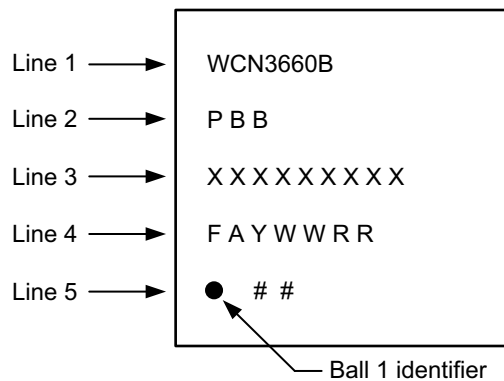
<b>Term</b>	<b>Definition</b>
WLAN	Wireless local area network
BT	Bluetooth
FM	Frequency modulation
ES	Engineering samples
CS	Commercial samples

## 2 Device identification

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The WCN3660B device can be identified by markings on its top surface and by the contents of an identification register; these identification techniques are described in [Section 2.1](#) and [Section 2.2](#), respectively.

### 2.1 Device marking



**Figure 2-1** WCN3660B part marking (top view, not to scale)

**Table 2-1** WCN3660B Device marking line definitions

Line	Marking	Description
1	WCN3660B	Qualcomm product name
2	PBB	P = product configuration code BB = feature code revision
3	XXXXXXXXXX	XXXXXXXXXX = wafer lot number

**Table 2-1 WCN3660B Device marking line definitions (cont.)**

Line	Marking	Description
4	FAYWWRR	<p>F = source of supply code for wafer fab locations</p> <ul style="list-style-type: none"> <li>■ When F = A: <ul style="list-style-type: none"> <li>□ Foundry = TSMC, Taiwan</li> </ul> </li> </ul> <p>A = Source of supply code for assembly location</p> <ul style="list-style-type: none"> <li>■ When A = A: <ul style="list-style-type: none"> <li>□ Assembly = TSMC, BP2B, Taiwan</li> </ul> </li> <li>■ When A = B: <ul style="list-style-type: none"> <li>□ Assembly = Amkor, ATT3, Taiwan</li> </ul> </li> </ul> <p>Y = single-digit year  WW = work week (based on calendar year)  RR = product revision</p>
5	##	## = two-digit wafer number

## 2.2 Device identification for each sample type

This section provides details for identifying each sample type.

**Table 1 WCN3660B device identification details**

Sample type	Product configuration code (P)	Product revision (RR)	Feature code (BB)	Date code (YWW)	Hardware revision number	Comments
ES	0	05	VV	< 401	0x0400	Engineering sample
CS	0	05	VV	≥ 401	0x0400	Commercial sample

### 2.2.1 Engineering samples (ES)

These devices have undergone limited testing and sometimes have significant feature limitations. They are suitable to assist with PCB development, to conduct board-level electrical evaluation tests, and to explore manufacturing considerations. Engineering samples are not to be used for product-level qualification.

### 2.2.2 Commercial samples (CS)

These devices have undergone full production-level testing and meet the specifications and features described in the device specification, except as otherwise noted in this document. They have passed device-level qualification. Commercial samples are suitable to be used for performance testing as well as product-level production and qualifications.

# 3 Known issues

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All known issues for each revision of the WCN3660B device are summarized in [Table 3-1](#). The text within the *Issue* column provides links to the sections of this document that explain the issues, regardless of the sample type (or types) on which they occur.

**NOTE** An *X* in any of the other columns indicates that the issue occurs on the corresponding sample type. A dash (–) in any of the other columns indicates that the issue was fixed on the corresponding sample type.

[Table 3-1](#) lists the functional area affected by each issue and their abbreviations.

**Table 3-1 Functional area**

Functional area	Description
TL	Top-level
WBFM	WLAN, Bluetooth, and FM
W	WLAN
BT	Bluetooth
FM	FM

**Table 3-2 Known issues – all sample types and revisions <sup>1</sup>**

#	Issue	Functional area (see <a href="#">Table 3-1</a> )	WCN3660B ES	WCN3660B CS
			P = 0	P = 0
			RR = 05	RR = 05
			YWW < 401	YWW ≥ 401
	Currently, there are no issues reported		–	–

1. *P* and *RR* values are detailed in [Table 2-1](#).



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