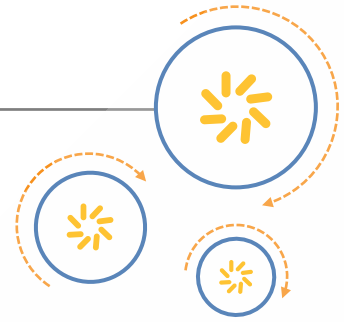


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Qualcomm Atheros, Inc.



QCA8075

Device Revision Guide

80-Y9112-3 Rev. E

December 7, 2015

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Revision history

Revision	Date	Description
A	July 2015	Initial release
B	July 2015	Updated Issues – description, impact, and workaround
C	September 2015	Updated section 2.2 and chapter 3 for QCA8075 1.1 ES
D	November 2015	Updated date code in 2.2 Device identification for each sample type
E	December 2015	Added I-temp CS details in 2.2 Device identification for each sample type

1 Introduction

Technical information for the QCA8075 device is primarily covered by the documents listed in [Table 1](#).

Table 1 Primary QCA8075 documents

Document number	Documentation title
80-Y9112-1	<i>QCA8075 Five-Port 10/100/1000 Mbps Ethernet Transceiver Preliminary Device Specification</i>
80-Y9112-2	<i>QCA8075 Five-Port 10/100/1000 Mbps Ethernet Transceiver Hardware Programming Reference</i>
80-Y9112-3 (this document)	<i>QCA8075 Device Revision Guide</i>

1.1 Scope and intended audience

This device revision guide identifies issues with all QCA8075 samples released to date. The following information is included:

- Introduction to this document and its topic ([Chapter 1](#))
- Device identification ([Chapter 2](#))
 - Device marking
 - Identification details for each sample type
 - Sample testing (ES and CS explanations)
- Known issues ([Chapter 3](#))
 - Issue description
 - Impact to system performance
 - Possible workarounds (what designers should do to minimize the issue’s impact)

This device revision guide is intended for new product developers who are designing, testing, and/or evaluating products that include the QCA8075 device.

2 Device Identification

The QCA8075 device can be identified by the markings on its top surface and by the contents of an identification register; these identification techniques are described in Section 2.1 through Section 2.2.

2.1 Device marking

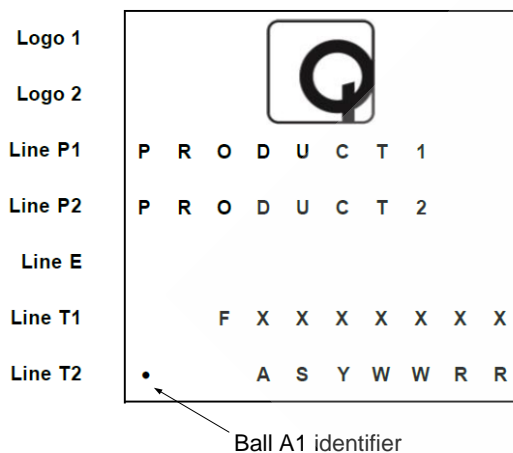


Figure 1 Device marking (top view, not to scale)

Table 2 Device marking line definitions

Line	Marking	Description
Logo 1 and 2	QUALCOMM	Qualcomm Atheros name or logo
P1	QCA8075	Qualcomm Atheros product name
P2	PAA	P = product configuration code AA = product feature code
E ¹		Blank space between P2 and T1
T1	FXXXXXXX	F = source of supply code XXXXXXX = wafer lot ID
T2	ASYWWRR	A = assembly site code S = assembly sequence number Y = single, last digit of year WW = work week (based on calendar year) RR = product revision

1. Line E may appear on the part marking for some samples. This is manufacturing information that is only relevant to Qualcomm and Qualcomm suppliers.

2.2 Device identification for each sample type

Table 3 Device identification details

Device	Product configuration code (P)	Product revision (RR)	Feature code (AA)	Sample type	Year/work week	Operating temperature (ambient)
QCA8075	0	00	VV	ES	≥1529	0 to 70°C
QCA8075	1	00	VV	ES	≥1529	-40 to 85°C
QCA8075	0	01	VV	CS	≥1546 ¹	0 to 70°C
QCA8075	1	01	VV	CS	≥1546	-40 to 85°C

NOTE: 1. Lot number 100PEP3019.U1U10 with date code 1538 is also CS material.

2.3 Sample testing

The “Sample type” codes in [Table 3](#) are defined below.

2.3.1 Engineering samples (ES)

These devices have undergone limited testing and sometimes have significant feature limitations. They are suitable to assist with PCB development, conduct board-level electrical evaluation tests, and explore manufacturing considerations.

2.3.2 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, and also product-level production and qualification.

3 Known Issues

None