



LAN8810/LAN8810I

Silicon Errata and Data Sheet Clarification

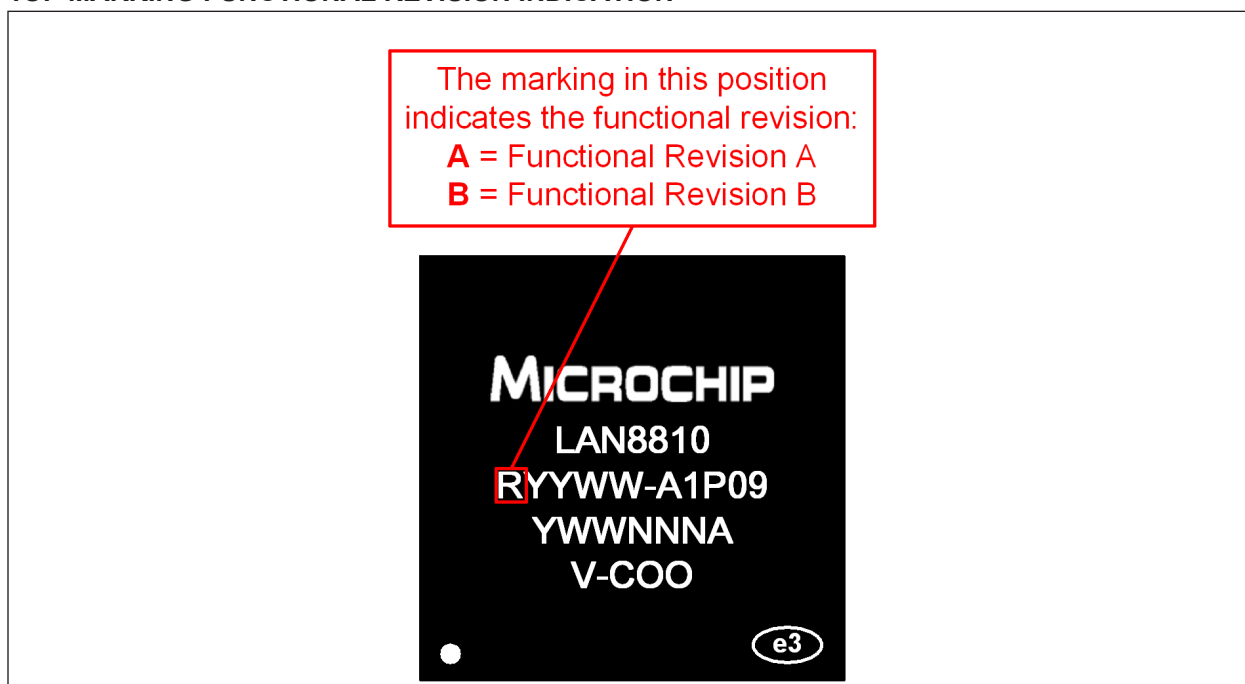
This document describes known silicon errata for functional revisions A and B of the LAN8810/LAN8810i device. The functional revision can be determined by its top marking as indicated in [Figure](#) . A summary of the silicon errata issues is provided in [Table 1](#).

Note: This document summarizes all silicon errata issues from all revisions of silicon, previous as well as current. Only the issues indicated in the last column of [Table 1](#) apply to the current silicon functional revision (**B**). X = applicable to the functional revision.

TABLE 1: SILICON ERRATA SUMMARY

Issue Summary	Affected Functional Revisions ⁽¹⁾	
	A	B
Ethernet port may not be able to link in Gigabit mode	X	X
Note 1: Only those issues indicated in the last column apply to the current silicon revision.		

TOP MARKING FUNCTIONAL REVISION INDICATION



Note: [Figure](#) details the top markings of an example part. Other than the highlighted revision marking, other top marking values may differ (manufacturer date, lot codes, industrial temperature part, etc.).

LAN8810/LAN8810I

Silicon Errata Issues

Module 1: Ethernet port may not be able to link in Gigabit mode

Description

In certain conditions and on certain parts, the device may report all normal functionality, but not be able to link in Gigabit Ethernet mode when connected to a Gigabit Ethernet partner. In this mode, 100BASE-TX and 10BASE-T modes will remain functional. The possibility of encountering this state depends on the power supply ramp rates along with the device temperature when powering up the device.

End User Implications

In the affected state, if a Gigabit partner is connected, the Auto-Negotiation process will continually restart and no Ethernet link will be achieved.

Solution

System implementers must follow the power-on procedure detailed in the LAN8810/LAN8810i Datasheet section 3.6.1 to alleviate the possibility of encountering the event.

Plan

This anomaly will not be fixed in a future revision of the device.

APPENDIX A: DOCUMENT REVISION HISTORY

Revision Level & Date	Section/Figure/Entry	Correction
DS80000633A (11-06-14)		Initial Release

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