



Robust, Industrial, Low Power, 10 Mbps and 100 Mbps Ethernet PHY

Silicon Anomaly

ADIN1200

This anomaly list describes the known bugs, anomalies, and workarounds for the [ADIN1200](#) Revision U1 silicon. The items listed apply to all packaged material that is branded as follows:

First Line [ADIN1200](#) (device identifier)
Second Line CCBZ or BCBZ
Third Line #1842 onward (Pb-free, date code, year, and week)
Fourth Line Nine-digit lot ID (assembly lot code)

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ADIN1200 FUNCTIONALITY ISSUES

Silicon Revision Identifier	Silicon Status	Anomaly Sheet	Number of Reported Anomalies
Revision identifier is 0 and can be read from the PHY_ID_2 register, REV_NUM bit field	Released	Rev. 0	2

Rev. 0

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One Technology Way, P.O. Box 9106, Norwood, MA 02062-9106, U.S.A.
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FUNCTIONALITY ISSUES

Table 1. PHY Linking—Automatic MDIX [er001]

Background	The ADIN1200 PHY devices may experience longer link times or issues linking, when two ADIN1200 devices at either end of the link have identical hardware configuration settings of automatic media dependent interface crossover (auto MDIX), have matching PHY addresses, and the PHY devices are powered up or released from a hardware reset at the same time (within 60 ms).
Issue	The behavior arises from a synchronization issue between the PHY devices, when they are powered up or released from a hardware reset at the same time. This issue results in the autocrossover sequence being synchronized between both devices and changing at approximately the same time. Where no crossover cable is present between the PHYs, both PHYs use the same wire pair to transmit and same wire pair to receive, thereby not seeing the transmissions of the other to resolve the media dependent interface (MDI) until they drift apart.
Workaround	There are multiple interim ways of avoiding this behavior. Any one of the following options is sufficient to mitigate risk of longer link times or nonlinking for this version of silicon: <ul style="list-style-type: none"> • Configure the PHYs with different PHY addresses by hardware pin configuration. • Configure the PHYs with different automatic MDIX/MDI settings by hardware pin configuration. • Configure the PHYs with different master/slave settings by hardware pin configuration. • Power the PHYs and release them from hardware reset >60 ms apart. • Use software to change the MDIX/MDI setting or issue a reset to the PHY.
Related Issues	PHY linking—1000BASE-T master/slave.

Table 2. INT_N/CRS Pin Operation During Reset [er002]

Background	The INT_N/CRS pin is not deasserted during I/O pin configuration (while RESET_N is low). This behavior is observed as the INT_N/CRS pin is being driven low while RESET_N is low and is observed for all media access control (MAC) interface configurations.
Issue	The output enable on this pin is not being deasserted during I/O pin configuration.
Workaround	None.
Related Issues	None.

SECTION 1. ADIN1200 FUNCTIONALITY ISSUES

Reference Number	Description	Status
er001	Longer link times or issues linking when two ADIN1200 devices at either end of the link have identical automatic MDIX hardware configuration settings.	Open
er002	INT_N/CRS state while RESET_N is low.	Open

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