Product Change Note (PCN)
EAC00377 / EAC00381 / EAC00396

The Art of Embedded Systems Development – **made Easy™**

To Our Valued Customers,

This PCN affects our iMX RT1166/RT1176 uCOM boards (product numbers: EAC00377, EAC00381 and EAC00396).

The Gigabit Ethernet Phy, AR8031 from Atheros, is not available on the market. We have replaced it with RTL8211FDI from Realtek. Although the update only has minimal software implications it is not 100% backward compatible. With a very small software update, the SDK examples can detect and support the Gigabit Ethernet Phy used at runtime.

SDK v2.12.1, or later, includes the software patch for run-time detection that automatically supports the new and old Gigabit Ethernet-Phy.

For a detailed understanding of the Ethernet driver update, compare the two files listed below. The file ending with ".orig" is the original, unmodified version of the file.
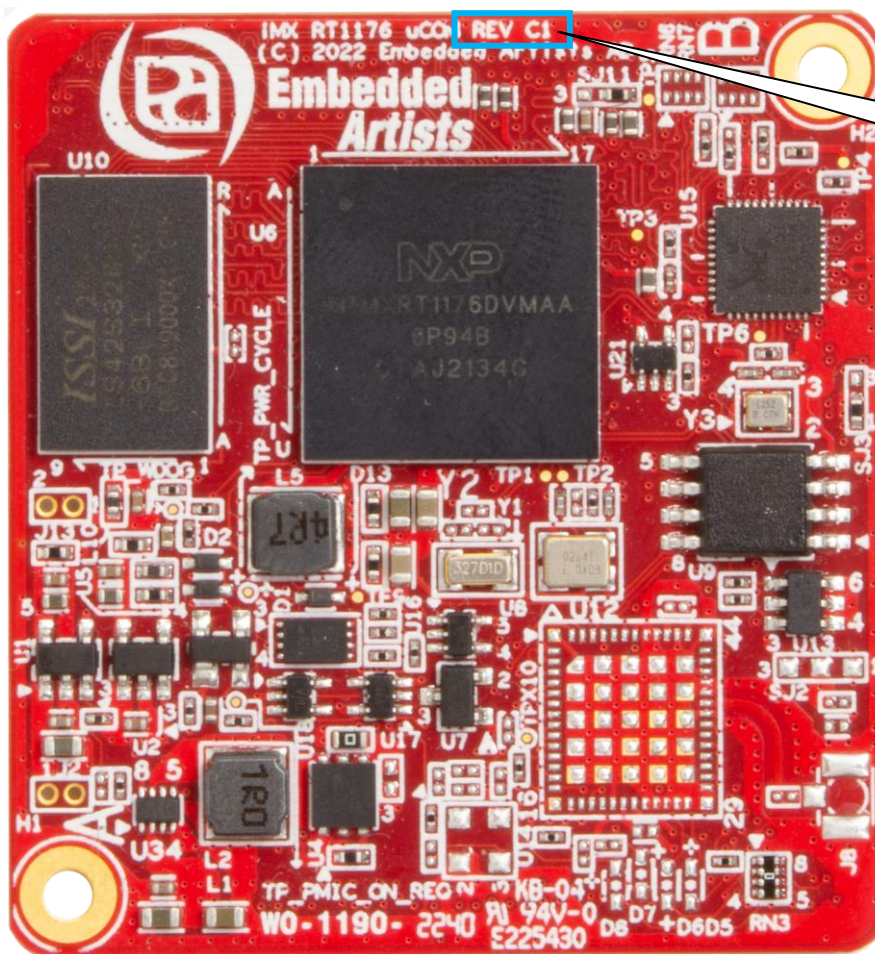
```
components\phy\device\phyrtl8211f\fsl_phyrtl8211f.c
components\phy\device\phyrtl8211f\fsl_phyrtl8211f.c.orig
```

The original part numbers (EAC00377, EAC00381 and EAC00396) will be kept since the software change needed is very small and allows run-time detection that automatically supports the new and old Gigabit Ethernet-Phy.

Identification

The new Gigabit Ethernet Phy is mounted on boards produced after December 2022. All boards from Embedded Artists have a marking: WO-XXXX-YYWW, where XXXX is the WO-number. YY is the year and WW is the week number when the board was produced.

The affected boards will have a WO-number above or including: XXXX ≥ 1190, and have board revision "C1", or later, see picture below how to identify the board.

Marking on top side. The board revision (rev C1 in this

Kind Regards,
Embedded Artists AB
January 18th, 2023