

To Our Valued Customers,

This PCN affects our iMX RT1062 OEM board (product number: EAC00308 and EAC00309), rev B2 and older.

We regret to inform you that we are forced to update our iMX RT1062 OEM board and this could make some aspects of it incompatible with the existing version.

The background is Renesas (formerly Adesto) **discontinuing the EcoXiP ATXP** family completely without offering a last time buy. This is a result of their wafer supplier not being able to supply wafers at all for their production.

Embedded Artists will **replace the 32 Mbit ATXP032 OctalSPI** flash on the iMX RT1062 OEM board **with a generic 128 Mbit QuadSPI** flash. This will offer more flexibility around different flash sizes and a more stable component supply in the future.

The switch from the higher data throughput OctalSPI solution to a lower data throughput QuadSPI solution can have an effect on your application if code is executed from the external memory directly, i.e. XiP. It will still be possible to execute XiP, but the execution performance will be lower on the new board revision. We believe that in most cases this will not affect the application but there can be special cases where it will have an effect.

We offer a new boards revision (rev C1) that is a replacement for EAC00308. Due to very low demand, we have not created a replacement for EAC00309 (iMX RT1062 OEM board without SDRAM).

Since the new board revision is not 100% backwards compatible, it has a new product number: EAC00428.

The datasheet and product development guide on the iMX RT1062 OEM board product page have been updated. The latest SDK from NXP (v 2.12.1) has been patched to support the new board version, see here: <https://www.embeddedartists.com/products/imx-rt1062-oem/>

Earlier patched SDKs do not support the new board version.

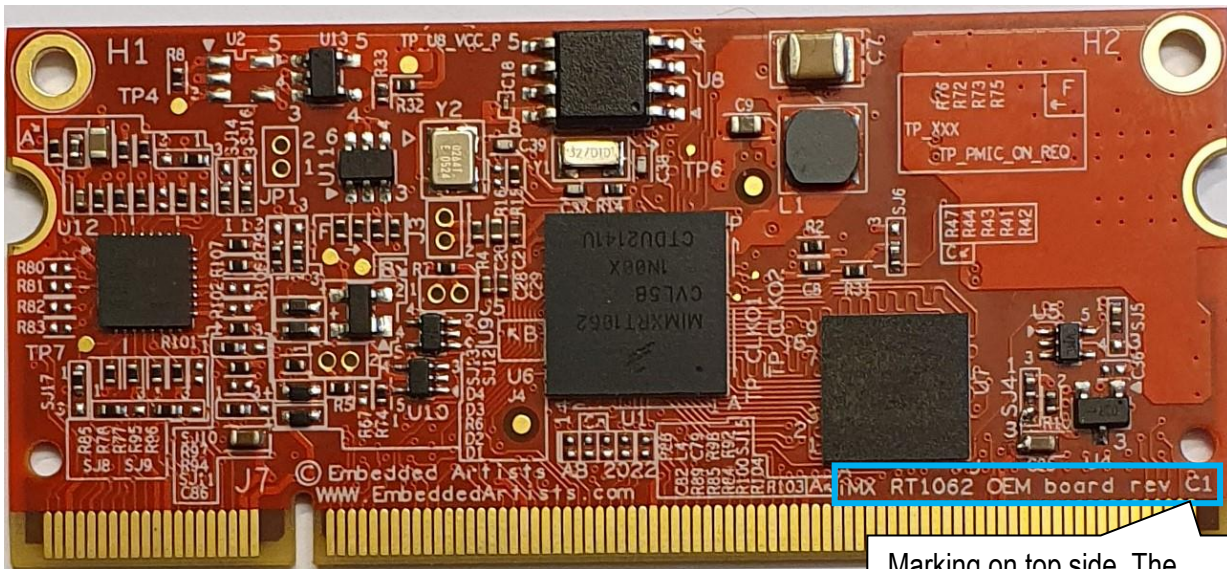
The documentation has been updated and includes a guide how to patch an existing project to support the new QuadSPI flash.

Identification

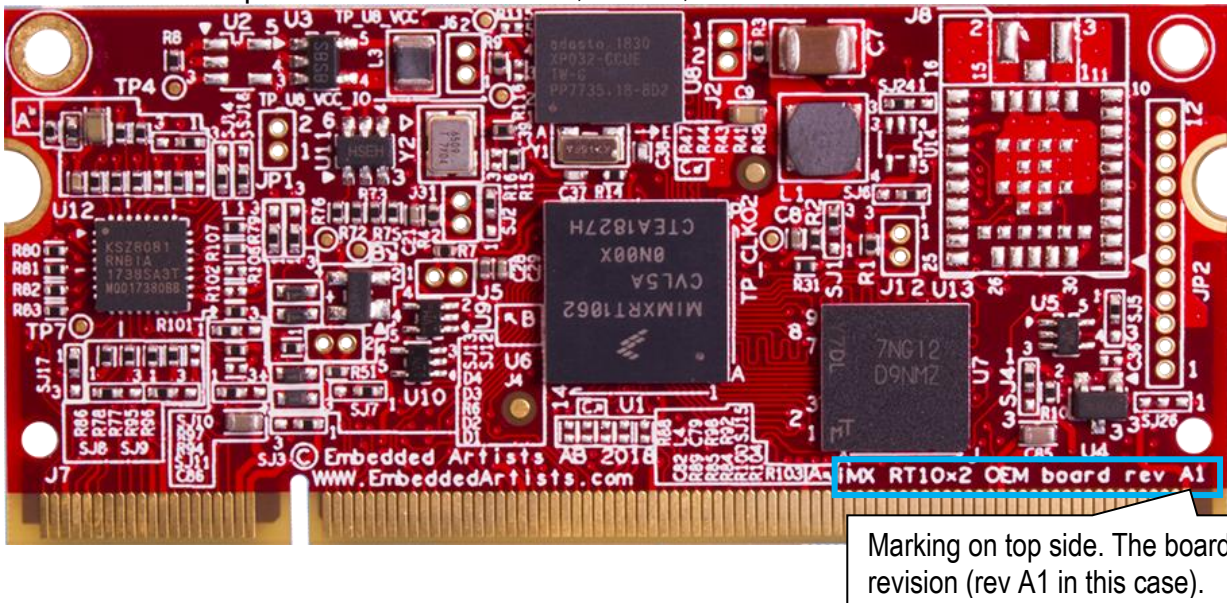
The new QSPI flash size will be mounted on boards produced after October 2022. All boards from Embedded Artists have a marking: WO-XXXX-YYWW, where XXXX is the WO-number. YY is the year and WW is the week number when the board was produced.

The affected boards will have a WO-number above or including: $XXXX \geq 1254$.

Below is a picture of the new rev C1 board.

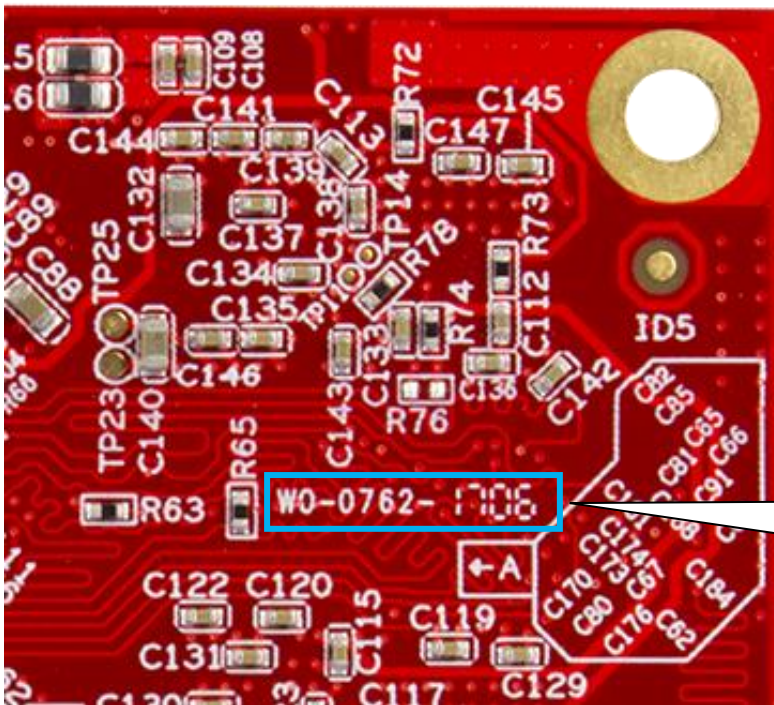


Below is an example of the older revisions, rev A1, in this case.



Product Change Note (PCN) EAC00308

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



Marking on bottom side.
The WO-number is 0762
in this case.

Kind Regards,
Embedded Artists AB
December 2nd, 2022