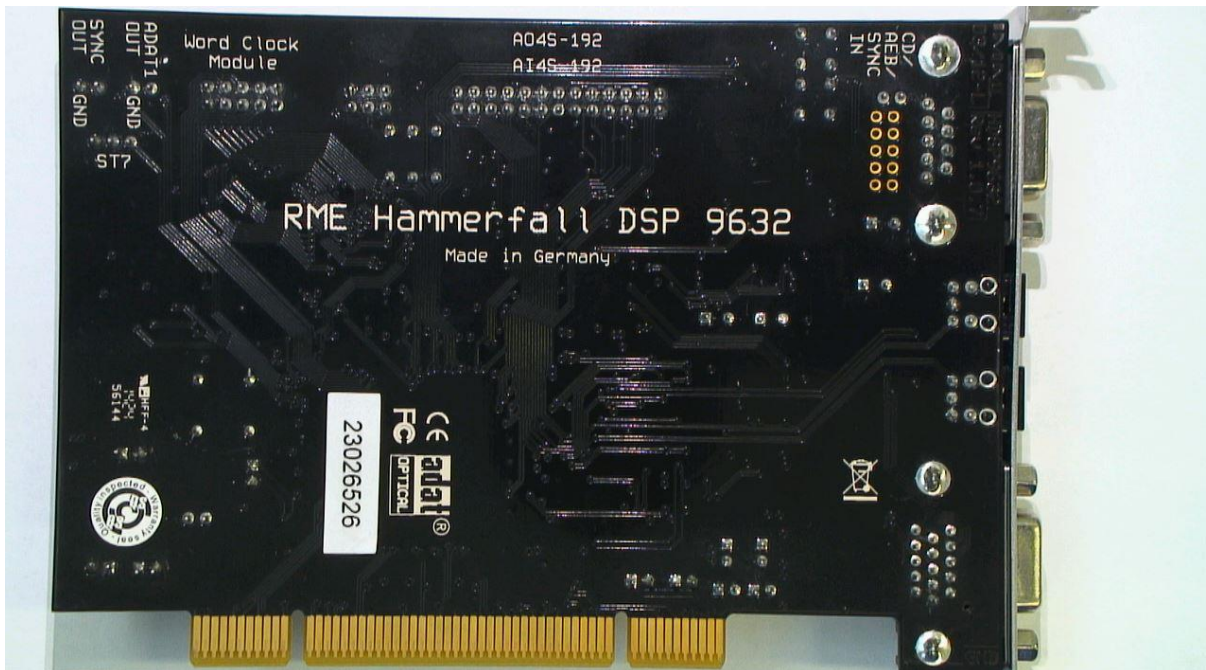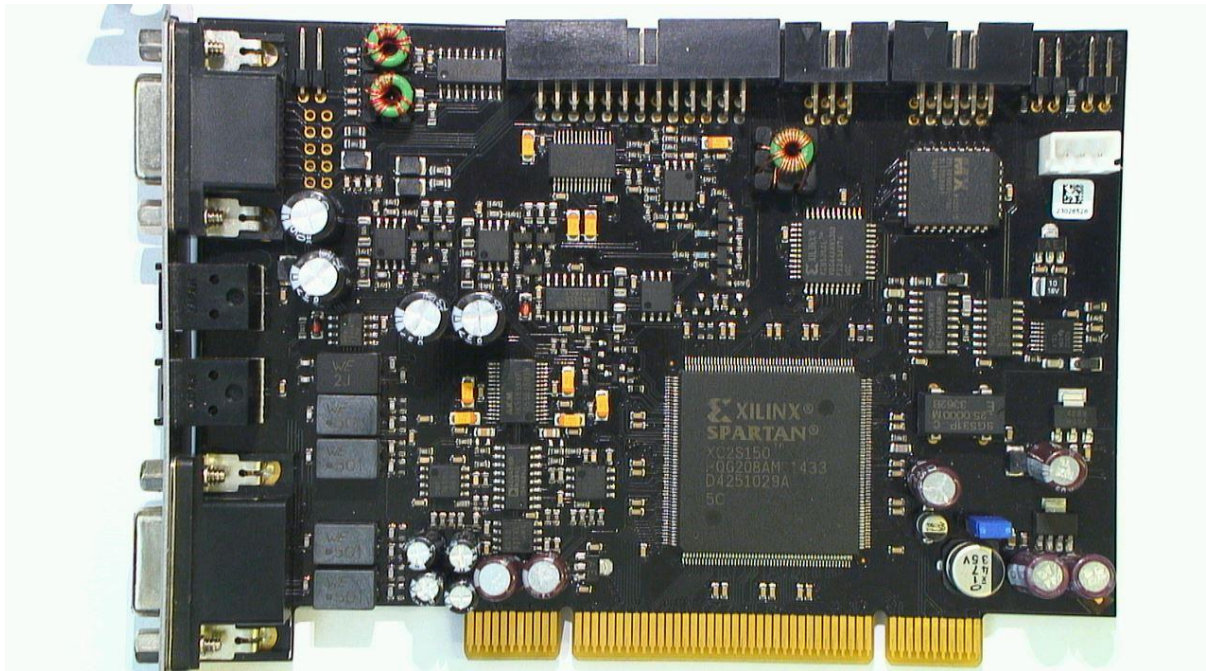# Test results HDSP9632 / SN 23026526

The HDSP9632 with serial number 23026526 was sent to IMM by RME Trading 8th April 2016.

General view

Reviewed facts:

Serial number:

- According to our system the serial number 23026526 isn't a HDSP9632, but a HDSPe RayDat additional card.
- All products from IMM, the series Area are both with 2D-bar Code (up) and Series No. (down). This card only has series No. but don't have 2D-bar Code.
- The material of the 2D-bar code isn't used by IMM. Our material has a yellow glued surface. The surface of the forged HDSP9632 is white.
- The serial number (bottom side, see picture) is neither the used kind of serial number of IMM nor a nearly similar material used by IMM.


Test of date code of XILINX:

We have tested if the date code of the used XILINX was delivered to IMM by our supplier and if both date codes where applied together on one PCB.
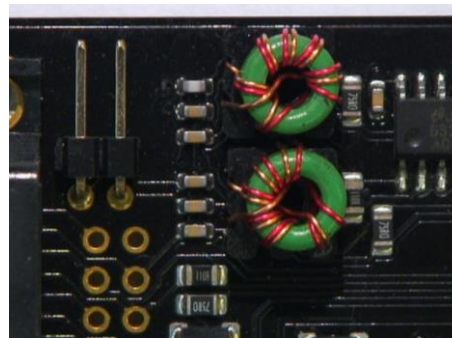
The result is that the date code 1303 of the XILINX XC9536XL VQG44 wasn't delivered to IMM and couldn't be used for products produced at IMM.

Transformer bifilar

At first sight you can see the poor quality of the bifilar transformers. The bifilar winding isn't processed as perfect as used by IMM. These transformers wouldn't pass our quality control.
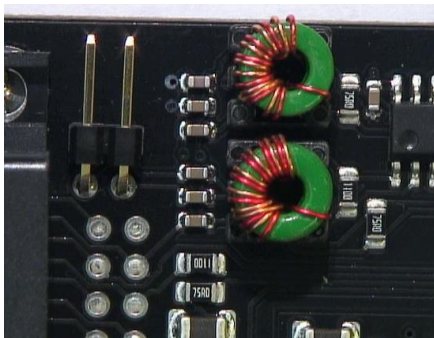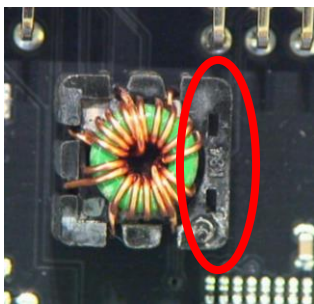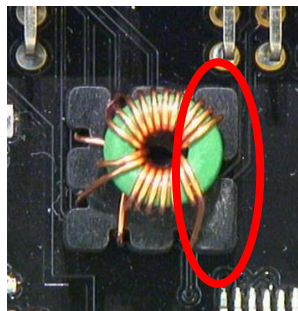

original

forged unit

Transformer 06 capped

Also this transformer isn't the type used by IMM. A special characteristic of our part is the unnotched base on the right side for eliminating any mistakes in mounting. The transformer of the forged unit has a notch on this side.
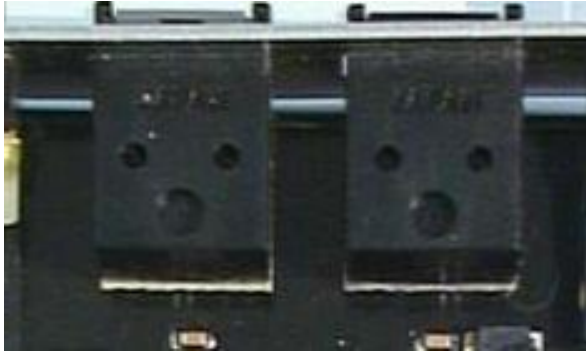

original

forged unit

ADAT-connector

The used ADAT-connectors weren't used in our production at this time because of a proclamation of the 25Mbit-type. This is the reason why at the moment of production of the forged unit (according to the date code of the PCB) IMM always used the type of Lih Shen.

Evaluation soldering process SMD

On closer inspection with a loupe we noticed that the soldering process was executed without using inert gas. IMM is using nitrogen for soldering of all assembled groups.

Evaluation soldering process THD

The PCBs of HDSP9632 are wave soldered. During this process all holes below the 9pole D-SUB-socket will not be masked so that they will be filled with tin. The forged unit has unfilled holes.

PCB

All PCBs supplied by IMM are hot air leveled - the PCB of the forged unit not.

Cardboard

The label on the cardboard doesn't comply to any of the used labels of IMM. The product designation is written as bar code (never written at IMM labels) and below is the serial number as bar code.

The label print can only be created on basis of our ERP-system. That's the reason why it can't be printed from our ERP-system, because this serial number refers to a HDSPe RayDat additional board.

Firmware

After receipt of the HDSP9632 we noticed that it was inoperative and couldn't be detected by computer. The programmed firmware couldn't be read out by programming adapter.

We programmed the current firmware and the HDSP9632 performed without any problems.

Conclusion

Because of the numerous inconsistencies it can be assumed that this unit was **not produced** by IMM!