

# Application note

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<b>Subject</b>	Layout Recommendations: Vias near ETX – Connectors on ETX Baseboard
<b>Related Products</b>	<b>All Kontron ETX - Modules</b>

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2002-05-06	M. Unverdorben	Initial release
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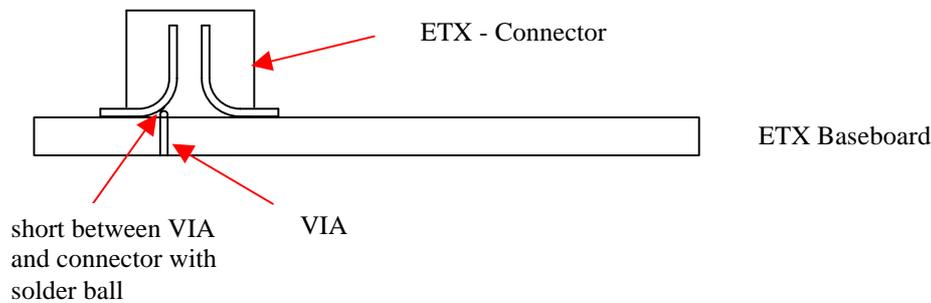
## **2. INTRODUCTION**

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This application note is for all designers of ETX baseboards. In certain cases there may be problems with the placement of vias near the ETX-connector pins.

## 3. LAYOUT RULE FOR ETX CONNECTOR AND VIA

If no solder resist was applied to the baseboard layout the following problem might occur:



If the via is located on the inner side of the ETX-connector and too near to the pin, a solder ball can create a short between a via and connector pin, if no solder resist is applied to the via.

There are 2 options to solve this problem:

- Use solder resist, so no balls will adhere to the via
- Increase the size of the space between the vias, inside the ETX – connector, and the pins. We recommend a total space of at least 0.5 mm between pin and via.