Description
The Atmel AT40KEL-DK design kit allows designers to evaluate and prototype applications using the AT40KEL040 rad hard FPGA.

Kit Content
2 design kits are available:
- The AT40KEL-DK160 with a package specific daughter board for the MQFPF-160 package.
- The AT40KEL-DK256 with a package specific daughter board for the MQFPF-256 package.

Both design kits contain:
- A prototyping mother board which is populated with a commercial serial configuration EEPROM AT17LV010.
- A package specific daughter board ATDH40D160M or ATDH40D256M.
- A standard parallel cable (PC parallel port DB25).
- An ISP cable for AT17 EEPROM series configuration memory. This configurator in-system programming cable (ISP cable) is a PC-only based cable that attaches to the parallel port of a computer. This cable allows in-situ programming so as to download the bitstream into the configuration memory.
- Atmel FPSLIC® System Designer CD-ROM, of which the IDS (Integrated Development System) is a subset. IDS software allows for place and route, and for back-annotation. In case you are already licensed with the Mentor ModelSim HDL simulator (for VHDL/Verilog RTL simulation and post place and route simulation) and the LeonardoSpectrum (logic synthesis from a VHDL/Verilog model entry), the tool encompasses the relevant libraries.
- The AT40KEL040 CD-ROM contains all available documentation, datasheets and software patches. First document to read to start with the design kit is the ‘User Guide’.
- An AT40K40EL FPGA engineering component that has to be plugged into the daughter board (see figures).

Reference Material
The AT40KEL-DK User Guide offers in-depth explanations to operate the kit. Furthermore, additional documents are available to help designer using both hardware and software elements incorporated in the kit. They can be retrieved on Atmel web site along with software patches.

Support
Application support is provided by the two following E-mail hotlines:
North America hotline: radhard-fpga@atmel.com
Rest of the World hotline: radhard-fpga@nto.atmel.com
Figure 1. AT40KEL-DK160

Lugs to prevent from mounting the wrong way
Figure 2. AT40KEL-DK256

Lugs to prevent from mounting the wrong way
## Ordering Information

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT40KEL-DK160</td>
<td>Design Kit dedicated to MQFPF160 Package</td>
</tr>
<tr>
<td>AT40KEL-DK256</td>
<td>Design Kit dedicated to MQFPF256 Package</td>
</tr>
<tr>
<td>ATDH40D160M</td>
<td>Additional Daughter board for MQFPF160 Package</td>
</tr>
<tr>
<td>ATDH40D256M</td>
<td>Additional Daughter board for MQFPF256 Package</td>
</tr>
<tr>
<td>AT40KEL040KW1-C-E</td>
<td>Additional AT40KEL040 FPGA sample in MQFPF160 Package</td>
</tr>
<tr>
<td>AT40KEL040KZ1-C-E</td>
<td>Additional AT40KEL040 FPGA sample in MQFPF256 Package</td>
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</tbody>
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