PE0403

1   February 2018

Evaluation Kit for CMX724x/734x

The PE0403 Platform Evaluation Kit is designed to assist in the evaluation and application development of the CMX724x and CMX734x ranges of *FirmASIC®* products.

Features

- PE0403 - 724x for CMX724x family FirmASIC® product range evaluation; fitted with CMX7240 to emulate CMX724x device performance
- PE0403 - 734x for CMX734x family FrimASIC® product range evaluation; fitted with CMX7340 to emulate CMX737x device performance
- Instrumentation interface (requires an additional -5 volt supply):
  - 50Ω output signal drivers
  - Instrumentation interface to CMX7240 single-ended input signals (PE0403 - 724x only)
  - Instrumentation interface to CMX7340 differential input signals (PE0403 - 734x only)
- On-board supply regulators operate from a single 5 volt supply
- 19.2MHz oscillator or external clock input to the on-board reference device
- Command and control by PC via the PE0003 Interface Card or via the user's microcontroller emulator or development application
- On-board access to all CMX7240/7340 signals, commands and data
- C-BUS Master for CMX7240/7340 control of other CML evaluation kits

For further information, please refer to the 'Design Resources' section on the CMX724x/734x FirmASIC™ product pages at cmlmicro.com
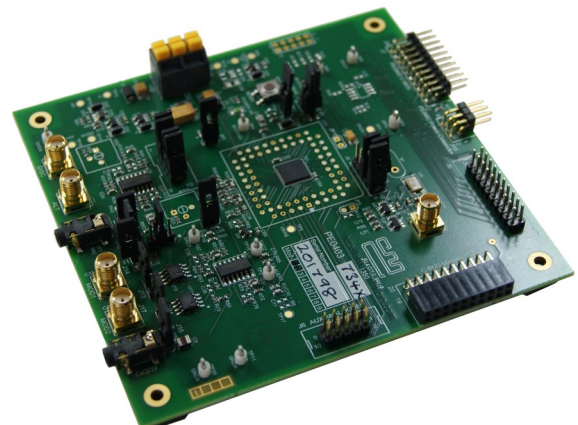
The kit is in the form of a populated PCB comprising a generic CMX7240 or CMX7340 IC and the appropriate supporting components and circuitry. The PE0403 - 724x is fitted with a CMX7240 and the PE0403 - 734x is fitted with a CMX7340.

The board also incorporates all of the necessary power-supply regulation facilities for operation from a single 5 volt supply, or a dual +/-5 volt supply if the instrumentation interface is required.

The board is fitted with a C-BUS connector allowing the PE0403 to be operated by connection to either of the two C-BUS ports on a CML PE0003 Universal Interface Card, and used with the associated PC GUI software, or by direct connection between the CMX7240/CMX7340 C-BUS and the user's µC development application or emulation system.

The common CMX724x/CMX734x Function Image™ (FI) can be loaded, on power-up, directly into the on-board target IC (CMX7240/CMX7340) using the PE0003 interface or the user's system.

Function images suitable for the CMX724x/CMX734x range of products can be downloaded from the CML Technical Portal.

PE0403

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