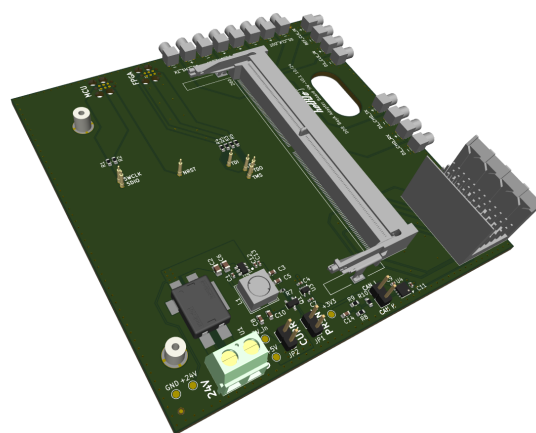


F-HET-MAC

HotRIO Eurocard Tool board

- Integrates SO-DIMM DDR4 slot for F-HSC-DDR Eurocard controller module
- Provides a single Eurocard Type A slot for expansion board development and testing
- Direct signal routing between DDR module and Type A slot
- MMCX connectors for probing LVDS pairs from the DDR module



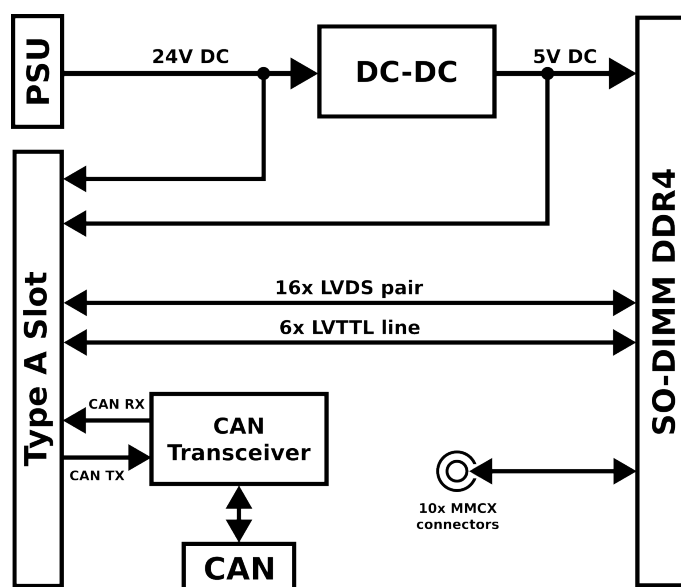
The F-HET-MAC (Macaco) is a HotRIO Eurocard tooling board designed to facilitate firmware development and testing for HotRIO-based products. It integrates a SO-DIMM DDR4 slot for connecting an F-HSC-DDR Eurocard controller module and provides a single Eurocard Type A slot, simulating a minimal Eurocard chassis environment. This allows developers to prototype and test Eurocard expansion boards without assembling a full chassis, streamlining the development process.

The board features direct signal routing between the DDR4 controller module and the Type A slot, with no onboard FPGA or programmable logic. Additional MMCX connectors are provided for probing selected LVDS pairs from the DDR module, supporting advanced debugging and timing analysis. The board also includes a CAN transceiver for the expansion slot, accessible via a dedicated connector for external monitoring. Power is supplied via a dedicated 24V input connector; the board cannot be powered through the backplane.

The DDR module installed in the SO-DIMM DDR4 slot is designed to serve as a direct substitute for a traditional HotRIO controller board within a Eurocard chassis. Instead of using a standard controller, this board allows the DDR module to directly interface with and control an expansion board inserted into the Eurocard Type A backplane slot. This configuration enables streamlined signal routing and control, eliminating the need for onboard FPGA or programmable logic while maintaining compatibility with existing Eurocard-based systems.

Technical Specifications

Form factor	100x100 mm
Controller interface	SO-DIMM DDR4 slot (for F-HSC-DDR module)
Expansion slot	1 x Eurocard Type A slot
Signal probing	MMCX connectors for selected LVDS pairs
CAN interface	CAN transceiver for expansion slot, accessible via dedicated connector
Power supply	24V DC (via dedicated supply connector)
Power from backplane	Not supported



Warning: This document exclusively describes the hardware detailed herein. Any reference to software or firmware used to operate this hardware is outside the scope of this document.

Developers are advised to consult separate documentation for any information related to software or firmware functionality.

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