

Board Bring-up and U-Boot porting:

Title:

Port and test U-Boot for AM437x based custom board.

Description:

Our customer, a leader in the consumer and professional imaging OEM with annual revenue of about 20 billion USD, wants to shift their various platforms to TI's AM437x based board.

The TI AM437x is a high-performance processor, based on the ARM Cortex-A9 core. It has rich GUI interfaces for enhanced 3D graphics acceleration. Also, its coprocessor provides deterministic real time processing. Time to delivery was the key challenge, as the product was required to be launched in a consumer electronic summit.

This project involves in porting and testing U-Boot for TI's AM437x based custom board. This includes analysis of the custom board features and implementation of U-boot features (commands) and finally test for the complete functionalities.

Challenges:

Contribution to the project is to

- Analyse the custom board features and creates the report on it.
- Port the U-Boot (configuring and adding features)
- Test the custom board features by creating U-boot commands.
- Debugging the U-Boot Source code for fixing the issues.

Languages & Tools:

- ARM Cross compilers
- U-Boot Open source code
- Assembly, C programming.