

Did you know we are a expert in

OpenAMP

OpenAMP is an open source framework with for inter processor communication to develop applications for asymmetric multi-processor systems.

On a Zynq UltraScale+ a classical design consists out of a PL implementation and a APU running the main application. The APU communicates with the external hosts mainly based on a Linux OS.

The need for real-time processings as well as needs for safety critical designs leads to a broader usage of the RPU in the devices. The RPU is acting as co-processor running mainly baremetal getting loaded by the APU using remoteproc. It handles real-time tasks like sensor and pipeline configuration as well as safety critical codes.

The communication implementation including interrupts and messages as well as custom protocols and the proper configuration of the CPU subsystem with Yocto and Petalinux in respect to functionality and usability together with update- and boot-concepts are part of the developments needs.

