

Arrow Head Provider/Consumer Demo - Device Temperature Measurement on Trenz Electronic TE0820 and TE0726. AH services on Raspberry Pi 3

Arrow head framework source: <https://github.com/arrowhead-f>
 This work is partially supported by ECSEL JU project Productive 4.0 No. 737459: <https://productive40.eu>

Local Cloud

Processing System part of the device

Programmable logic part of the device

Operator PC

Ethernet switch

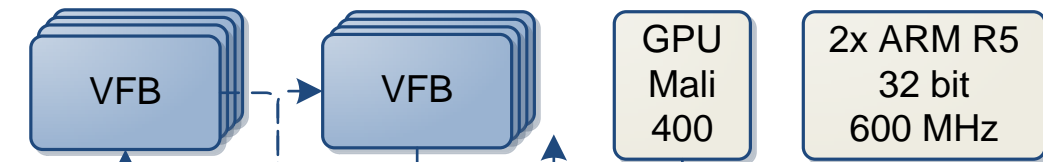
TE0820

TE0726

Raspberry Pi 3

4x A53
64 bit
1.2 GHz

Arrow head Provider server example on the Zynq UltraScale+ TE0820
 Zynq device temperature is provided for the arrow head framework.
 Support for: Debian Stretch, SciLab and SDSoC 2018.2 (30 examples).



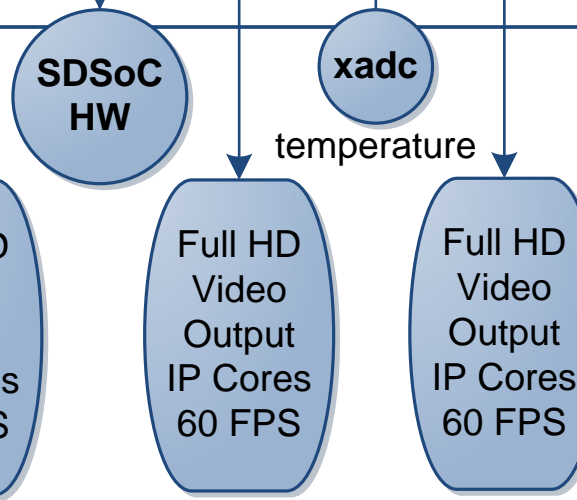
2x A9
32 bit
650 MHz

Arrow Head Consumer client example on 32 bit Zynqberry TE0726

VFB

4x A53
BCM2837
64 bit
1.2 GHz

Arrow Head Services on 64 bit Raspberry Pi 3 in Java. Database. DHCP Server.



- GUI**
- Petalinux 18.2 kernel
 - SD card with 64 bit Debian "Stretch" FS
 - Xfce4-panel desktop env.
 - USB
 - Kbd, Mouse
 - Full HD HDMI display

- GUI**
- Petalinux 18.2 kernel
 - SD card with 32 bit Debian "Stretch" FS
 - Xfce4-panel desktop env.
 - USB, Audio
 - Kbd, Mouse
 - HD HDMI display

EW: Hall 3A/3A-240



www.trenz-electronic.de



zs.utia.cas.cz