

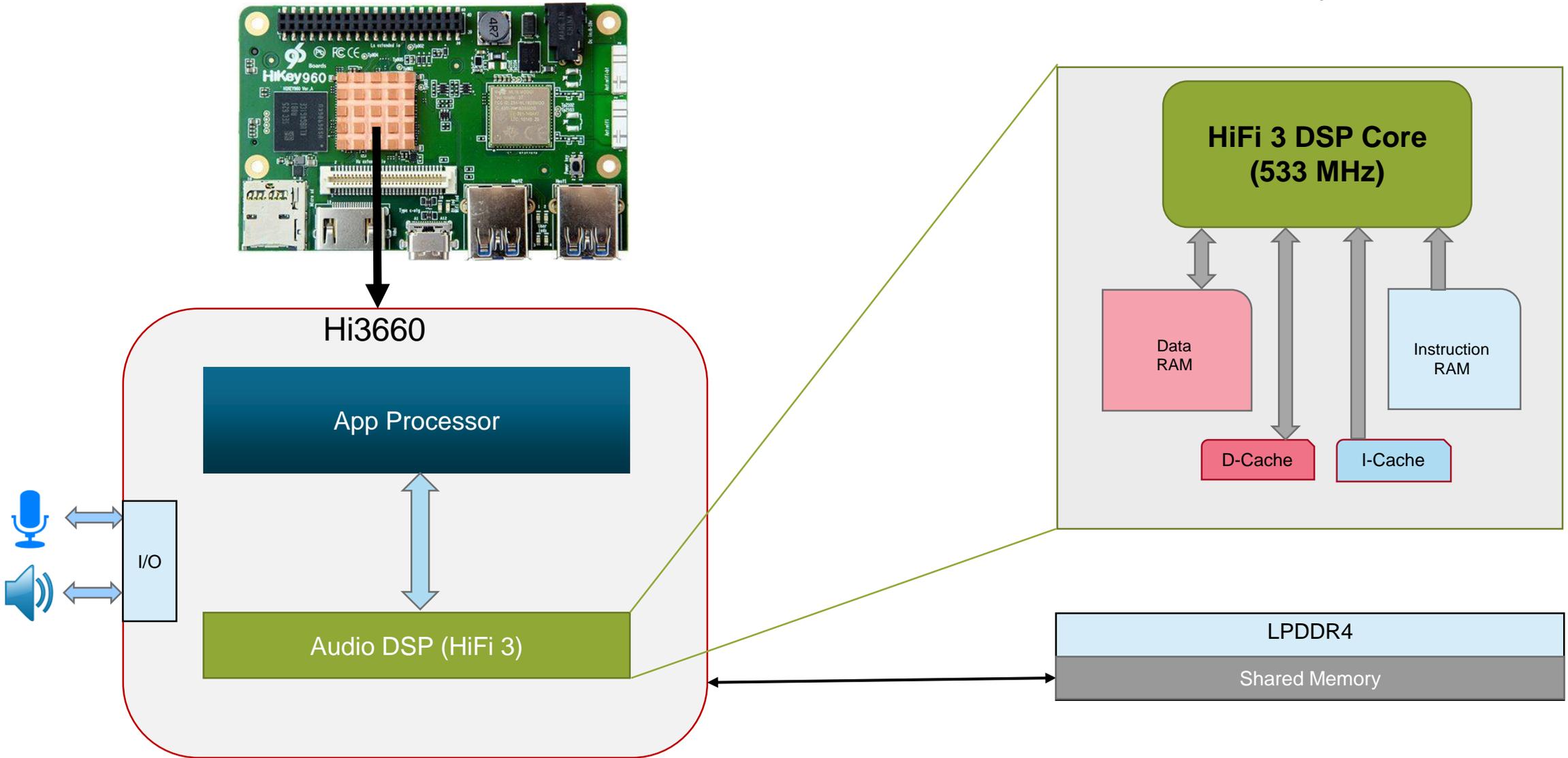


Hikey960 with HiFi 3 DSP SDK

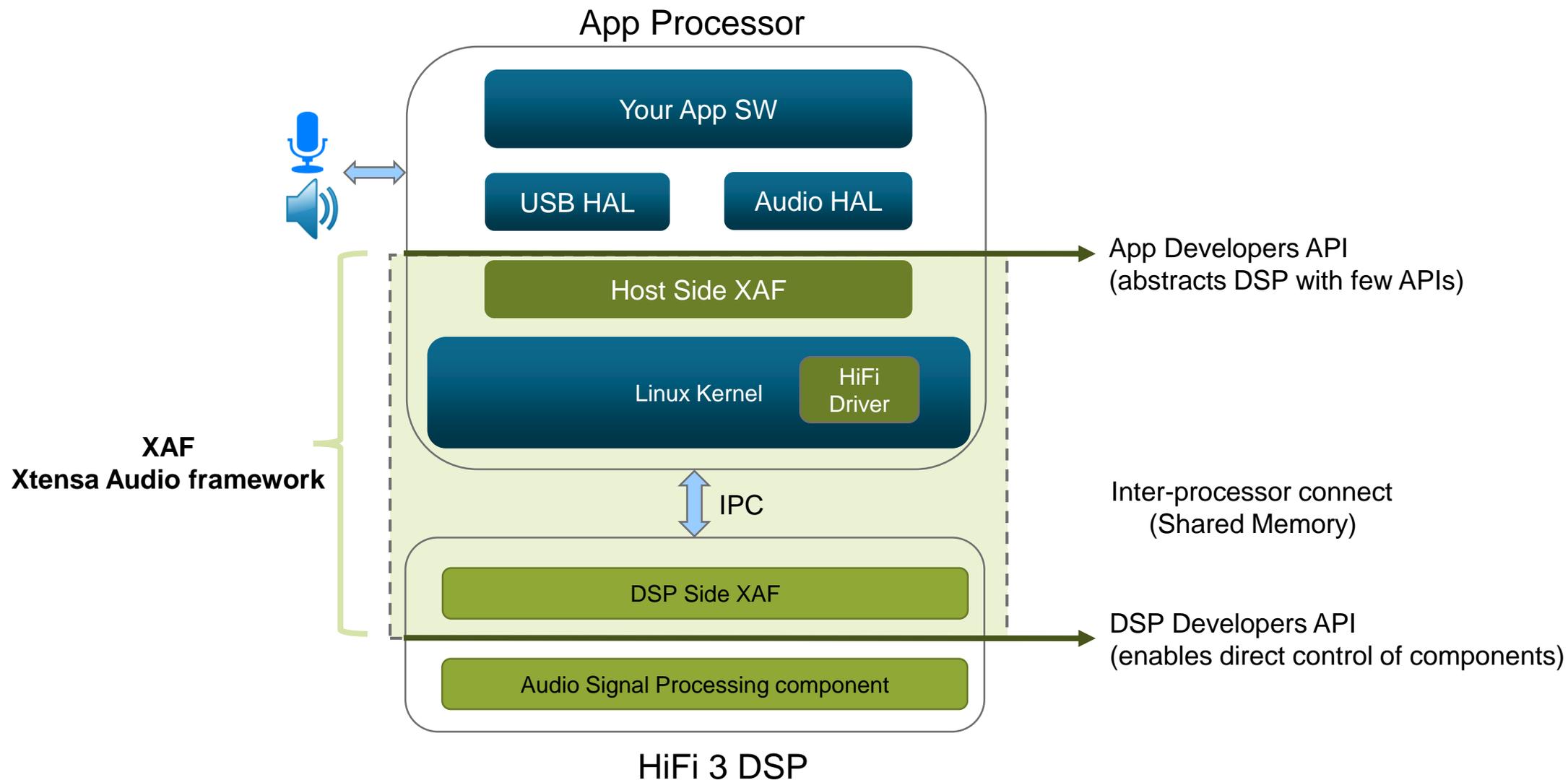
Cadence HiFi DSP SDK for Android

- A development and demonstration platform for Audio and Speech Applications
- Target Applications
 - Audio and speech codecs
 - Voice pre-processing such as acoustic echo cancellation, noise reduction
 - Multi-microphone processing
 - Audio post processing including object audio processing and rendering
 - Immersive audio, 3D audio, AR/VR
 - Speech recognition
 - Neural network based processing

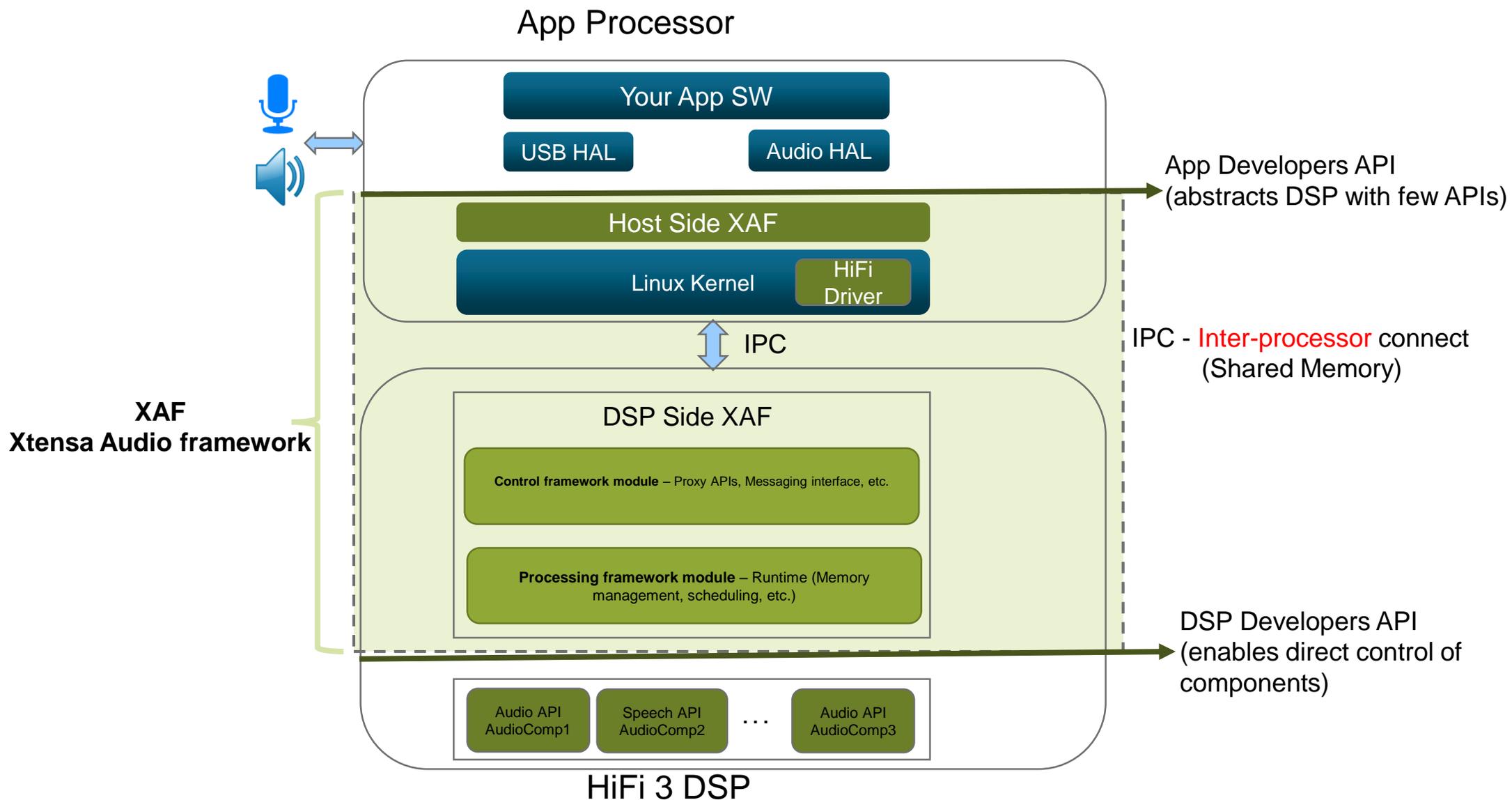
Hardware Architecture of Cadence HiFi 3 DSP in Hikey960



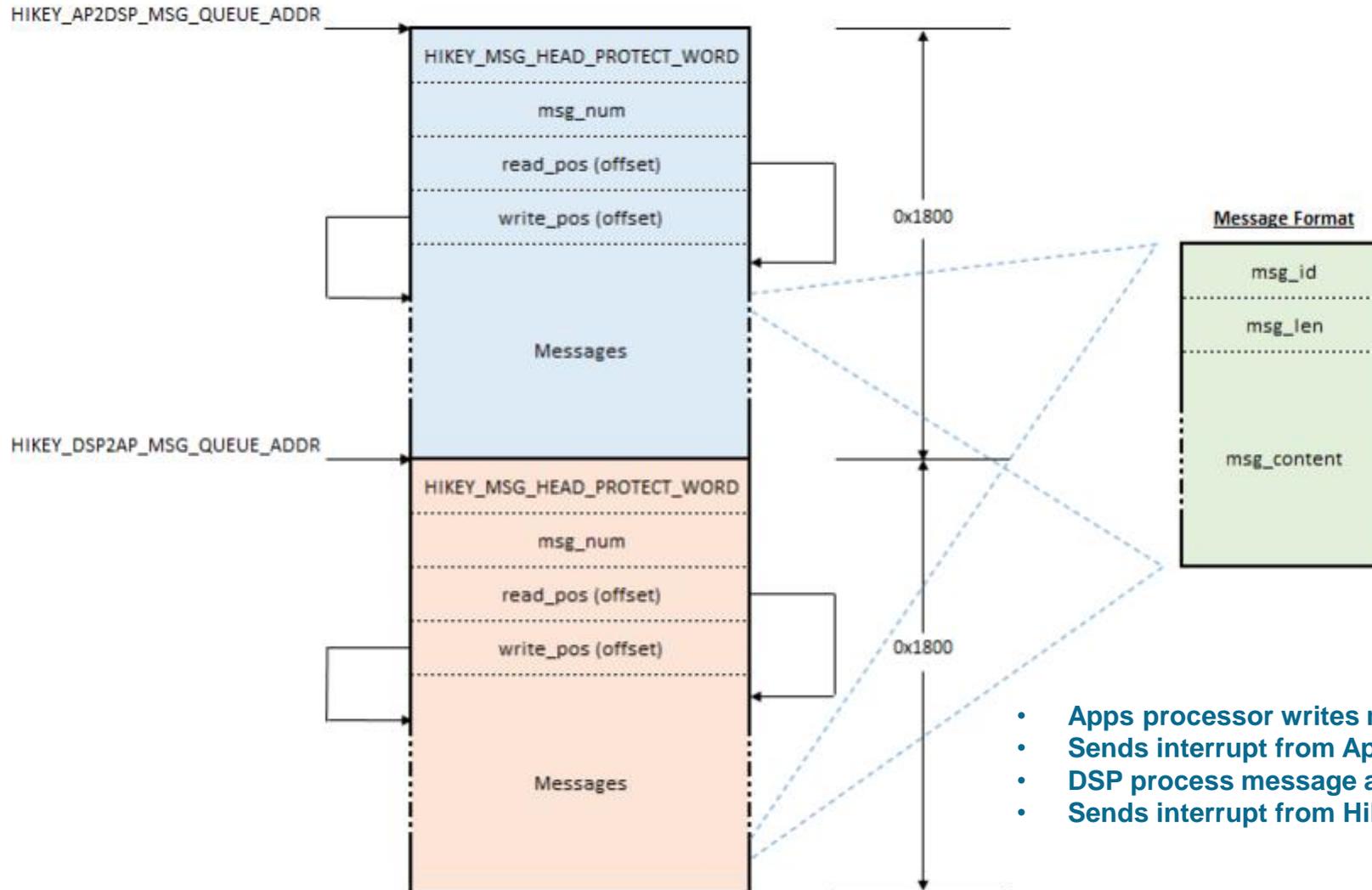
Software Architecture of the Hikey960



Software Architecture of Hosted XAF



Inter processor communication(IPC) explained



- Apps processor writes message to AP2DSP Message Queue
- Sends interrupt from Apps processor to HiFi Core to notify message
- DSP process message and writes message to DSP2AP Message Queue
- Sends interrupt from HiFi Core to Apps processor to notify message

cā dence[®]

© 2017 Cadence Design Systems, Inc. All rights reserved worldwide. Cadence, the Cadence logo, and the other Cadence marks found at www.cadence.com/go/trademarks are trademarks or registered trademarks of Cadence Design Systems, Inc. All other trademarks are the property of their respective holders.