

## Consilient VoIP on Cortex M4

Consilient's VoIP software (**Vajra**) on Cortex M4 based platform provides SIP-based VoIP functionality. The software is a comprehensive module which includes the SIP and media protocol stack. It enables easy integration with audio driver and application.

### Vajra Features / Specifications

<b>SIP Registration</b> <ul style="list-style-type: none"> <li>• Register With Periodic Automatic Refresh</li> <li>• Register &amp; UnRegister</li> </ul>
<b>Call Features</b> <ul style="list-style-type: none"> <li>• Call Originate</li> <li>• Call Receive</li> <li>• Call Reject</li> <li>• Call Cancel</li> <li>• Call Terminate</li> <li>• Call Hold</li> <li>• Do Not Disturb</li> <li>• Outgoing Call Barring</li> <li>• Call Mute</li> <li>• Remote Caller Id Presentation</li> </ul>
<b>SIP Transport: UDP</b>
<b>DTMF transport via RTP/4733</b>
<b>RTP + JB</b> <ul style="list-style-type: none"> <li>• Sending / Receiving Voice (with VAD)</li> <li>• Sending / Receiving DTMF</li> <li>• Sending / Receiving RTCP SR and RR</li> <li>• Sending RTCP BYE Packet</li> <li>• Adaptive Jitter Buffer</li> </ul>
<b>Codec Modules</b> <ul style="list-style-type: none"> <li>• G711u/a</li> <li>• G722</li> <li>• iLBC (20 and 30 mSec)</li> <li>• VAD/CNG/PLC</li> </ul>
<b>RFC's supported</b> <ul style="list-style-type: none"> <li>• 1321, 2327, 2782, 2915, 3261, 3263, 3264, 4733, 3550 and 3551</li> </ul>
<b>Application call back functions</b> <ul style="list-style-type: none"> <li>• Received Caller Id</li> <li>• Call Progress Notifications</li> </ul>

#### Memory Footprint (RTOS and Networking Stack memory not included)

Flash	153 KB
RAM	35 KB