



## LOW-POWER EMBEDDED MULTIMEDIA SOLUTION

**Clove** is Ittiam's latest **low-power, industrial-grade processor module** in its field-proven **neonCaster family** of hardware platforms. It is compact, versatile and enables customers to create differentiated low-power cost-effective multimedia solutions. Clove is designed for Texas Instrument's latest generation **Sitara/Jacinto** processors with single/dual ARM Cortex-A15 & C66x DSP(s), and is capable of:

- H.264 Full-HD 4:2:0 encode (1080p60), decode (1080p60), transcode (1080p30)
- H.265 (HEVC) Full-HD 4:2:0 decode (1080p30)

Clove hardware is offered along with Board Support Package (BSP), Multimedia Codecs, Media SDK and Application software.


| neonCaster Gen I                                                                                                                                                                                                                                                           | neonCaster Gen II (NPM)                                                                                                                                                                                                                                                        | neonCaster Gen II (Clove)                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• High performance platform based on TI DM816x and C6678 processors</li> <li>• Single board design</li> <li>• Multi-channel H.264 Full-HD (1080p60) 4:2:0 Encode, Decode, Transcode</li> <li>• H.264 4:2:2 10-bit Encode</li> </ul> | <ul style="list-style-type: none"> <li>• Compact, <b>high performance</b> Processor Module based on TI DM816x</li> <li>• Two-board design</li> <li>• Standard I/O Boards: Nova x1, x2, x3, x4</li> <li>• Multi-channel H.264 Full-HD (1080p60) 4:2:0 Encode, Decode</li> </ul> | <ul style="list-style-type: none"> <li>• Compact, <b>low power</b>, versatile Processor Module based on TI's Sitara / Jacinto</li> <li>• Two-board design</li> <li>• Standard I/O Board: Nova x4</li> <li>• H.264 Full-HD (1080p60) 4:2:0 Encode / Decode</li> <li>• H.265 (HEVC) Full-HD (1080p30) 4:2:0 Decode</li> </ul> |

### neonCaster Gen-II Clove

Platform Advantages

#### Highlights

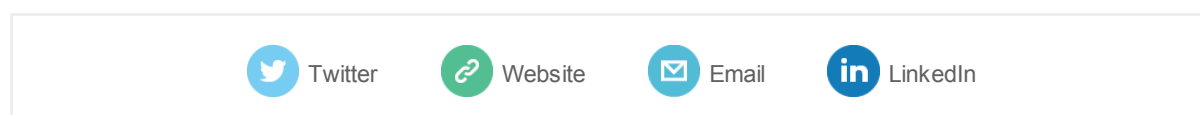
- **Standalone processor module**
  - Media players, streaming clients
  - IP-In / IP-Out based applications (ex tra scoder)
  - Server, Recorder (with external USB camera)
- **Pin compatible with neonCaster Gen II NPM**
- **Off-the-shelf neonCaster Gen II I/O Boards (Nova)**
  - Nova x4: Single / dual channel server / player / recorder, 2x2 video mixer / switcher
- **Custom I/O Boards**
- **Choice of Media SDK**
  - Server, Player / Client, Recorder, Transcoder, Video Mixer / Switcher



System software on Clove is based on **adroitSDK** - [Ittiam's Media SDK for Industrial & Defense](#). adroitSDK is available in multiple **off-the-shelf configurations**:

- [+] Low Latency HD/SD Server & Client: **adroitLive**
- [+] HD/SD Streaming Server: **adroitStream**
- [+] HD/SD Recorder: **adroitRecord**
- [+] HD/SD Player/Client: **adroitPlay**
- [+] HD/SD Transcoder: **adroitXCode**
- [+] HD/SD Server Recorder Combo: **adroitRecord+**
- [+] Hybrid combinations of the above

|                   |                   |
|-------------------|-------------------|
| Download Brochure | View Product Demo |
|-------------------|-------------------|



Regional contacts: [click here](#)

Copyright © 2015 Ittiam Systems, All rights reserved