

Clove Mini

Product Brochure



Clove Mini is a low power, industrial grade hardware board in Ittiam’s Clove family of system solutions. It can be leveraged to build low-power, differentiated & cost-effective video networking solutions. Clove Mini is designed on Texas Instrument’s **Sitara™ AM57x** processor with single/dual ARM Cortex™-A15 and C66x™ DSP(s), and supports Full-HD encoding and transcoding.

HIGHLIGHTS

- Compact, industrial-grade single-board design
- Multiple processor options (Sitara™ AM5728, AM5718)
- Full-HD H.264 video encode (up to 1x 1080p60)
- <10msec encoder latency
- Ideal for Encoder (Streaming Server), Low Latency Encoder, Transcoder
- Suitable for Surveillance, Enterprise, Broadcast applications, Medical, Defense & Industrial applications



Processing Power

Sitara™ AM57x - Up to 1.5 GHz Single / Dual ARM Cortex™-A15
 - Up to 750 MHz Single / Dual C66x™ DSP

Memory Capacity

1 GByte (Optional 2 GByte) DDR3L SDRAM
 1 MByte SPI Flash
 4 Gbyte eMMC

Data/Communication Interface

1x Gigabit Ethernet

AV Inputs

1x 3G-SDI Up to 1080p60 + 4x Stereo Audio
 1x Line Input 1x Analog Stereo Audio

Expansion Interfaces

60-pin BTB Conn – GPMC Interface

Debug Interface

1x 20-pin Header JTAG, 2x RS-232

Other Features

RTC with power back up (up to 7 years with Battery)
 Reset Switch, Power and Status LEDs

Power Input

+5V DC 2-pin header

Power Consumption

6.5W (Typical)

Dimensions

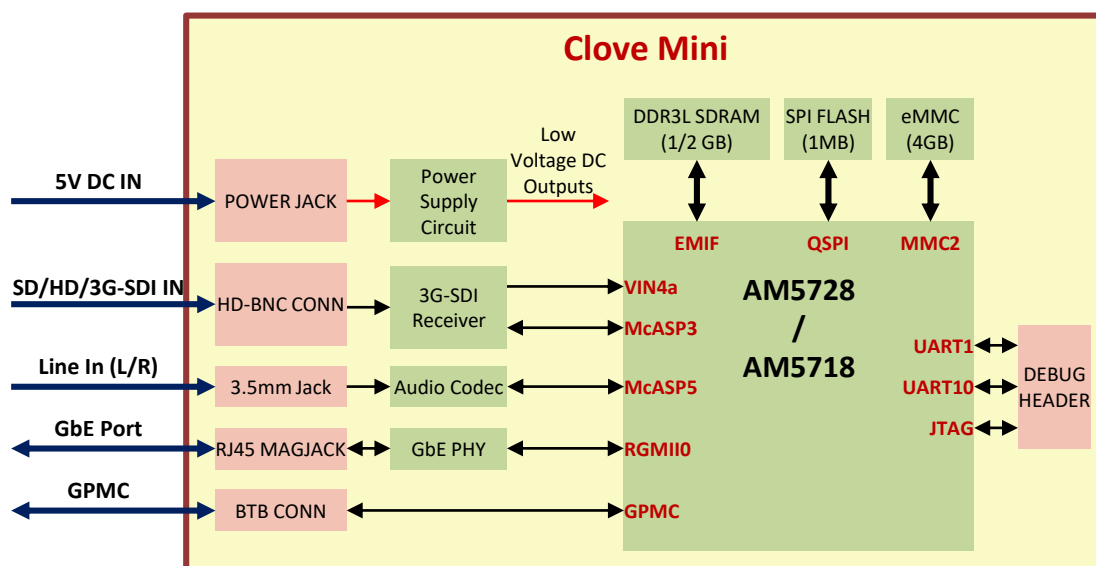
3.74" x 3.94" x 0.84" (95 x 100 x 21.3 mm)

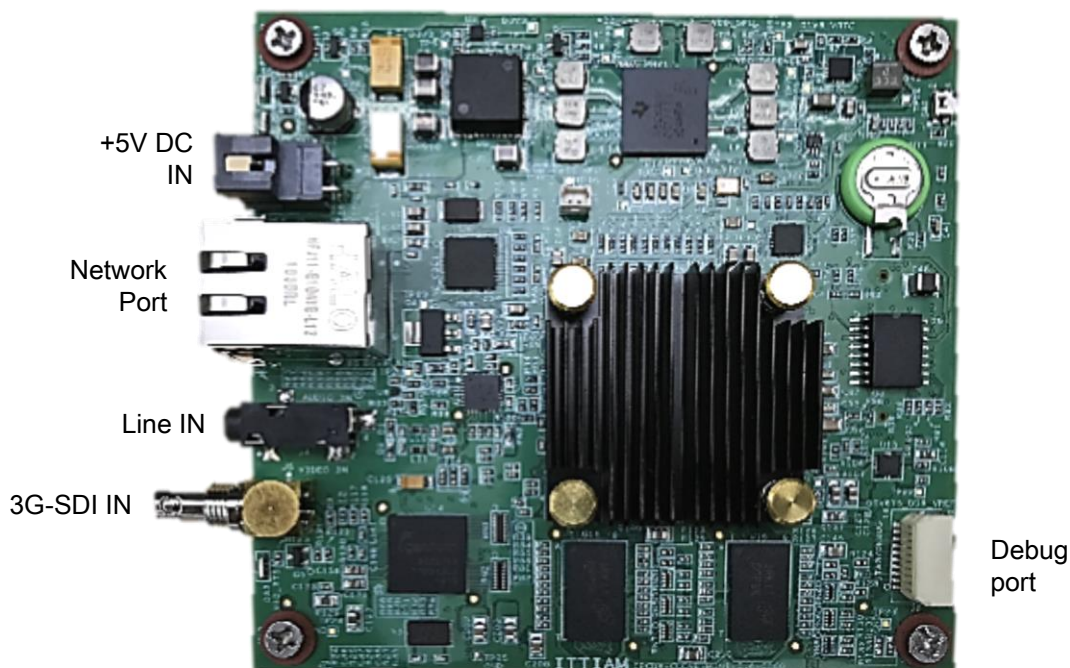
Temperature Range

-20°C to +75°C (Operating)
 -40°C to +85°C (Storage)

Technical Specifications

Hardware Block Diagram





For additional I/O interface options, check out the other h/w designs in Ittiam's Clove family of Full-HD video solutions.



Clove SoM



Clove SoM + Nova x4 I/O Board



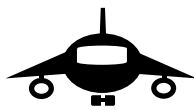
Clove SoM + Nova x7 I/O Board



MEDICAL



BROADCAST



AVIONICS & IFE



DEFENSE



SURVEILLANCE



ENTERPRISE

For more details, write to ids-mkt@ittiam.com or visit www.ittiam.com/products/system-solutions

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