

Magna Ace

Product Brochure



Magna Ace is a high-performance hardware board in Ittiam's Magna family of system solutions. It can be leveraged to build high performance, differentiated & cost effective video networking solutions. Magna Ace is designed on Texas Instrument's **DaVinci™ TMS320DM816x** processor with ARM Cortex™-A8 and C674x™ DSP, and supports multi-channel Full-HD encoding, decoding and transcoding.

HIGHLIGHTS

- Compact, industrial-grade single-board design
- Multiple processor options (DaVinci™ DM8169, DM8168, DM8167, DM8165)
- Multi-channel, simultaneous H.264 encode and decode (up to 3x 1080p60)
- As low as 50 msec glass-to-glass latency
- Ideal for Encoder (Streaming Server), Recorder, Player/Client, Low-Latency Encoder/Decoder, Transcoder use cases
- Suitable for Surveillance, Enterprise, Broadcast applications, Medical, Defense & Industrial applications



Processing Power

TMS320DM816x -1.2/1.1* GHz ARM Cortex™-A8
-1.0/0.93* GHz C674x™ DSP

Memory Capacity

1 GByte (optional 2 GByte) DDR3 SDRAM
256 MByte NAND Flash

Data/Communication Interfaces

1x Gigabit Ethernet

AV Input

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

AV Output

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

Expansion Interfaces

60-pin BTB Conn GPMC Interface
GPIO Header 4x GPIOs

Debug Interfaces

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

Storage Interfaces

1x SATA (with power connector)
1x USB 2.0

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

14W (Typical)

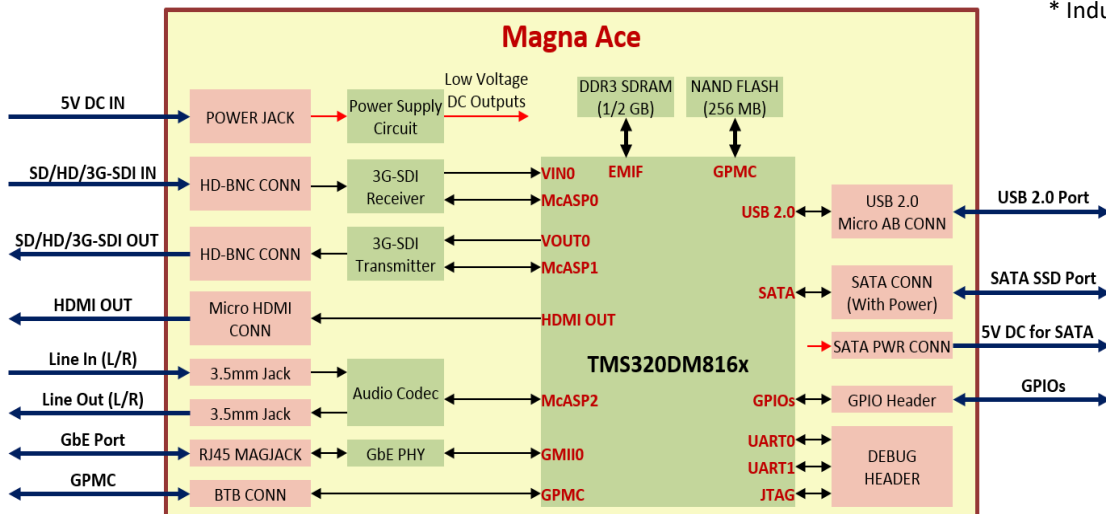
Dimensions

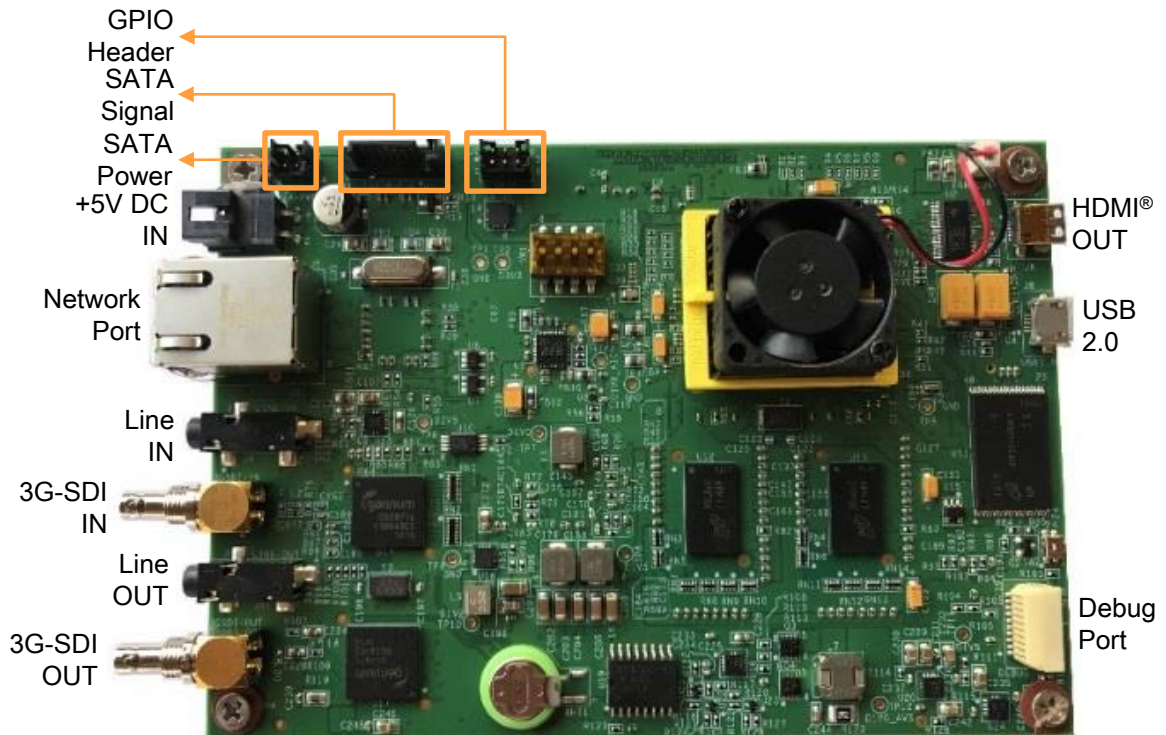
3.74" x 5.32" x 0.89" (95 x 135 x 22.7 mm)

Temperature Range

-20°C to +60°C (Operating)
-45°C to +85°C (Storage)

* Industrial version





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



Magna SoM



Magna SoM + Nova x4 I/O Board



Magna SoM + Nova x7 I/O Board



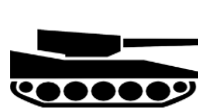
MEDICAL



BROADCAST



AVIONICS & IFE



DEFENSE



SURVEILLANCE



ENTERPRISE

For more details, write to ids-mkt@ittiam.com or visit www.ittiam.com/product/magna

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