

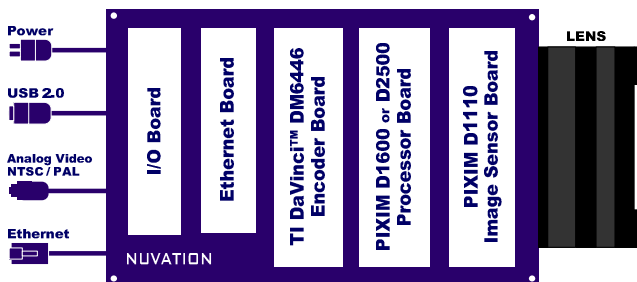


HIGHLIGHTS

- 30 fps streaming D1 resolution TCP/IP camera
- TI DaVinci™ DM6446 Dual-Core DSP with ARM926
- Embedded Linux
- Pixim's ultra-wide dynamic imaging range
- Ultra-compact form factor
- Ultra-low power
- RoHS compliant
- H.264, MPEG-4/H.263, and JPEG video encoding options
- Video Content Analytics-capable

OVERVIEW

Nuvation's IP Camera Reference Design is a complete reference design featuring Pixim's ORCA advanced imaging chipset, TI's DaVinci™ DM6446 DSP, TI Digital Media Software codecs, embedded Linux, optional video analytics, Pixim firmware, and ultra-compact mechanical enclosure.



Nuvation IP Camera Hardware Block Diagram

IMAGING CHIPSET

- Pixim ORCA D1600 or D2500 imaging chipset
- Encoder Board Configuration Options
- High resolution color for crisp, clear capture
- Progressive image capture - 540 HTVL equivalent
- Wide dynamic range 102 dB typical / 120 dB Max
- Full resolution D1 (NTSC / PAL)
- Full frame-rate up to 30 fps
- Optimum exposure mode presets
- Fully automatic operation (ATW, AGC, BLC, etc.)
- Advanced noise reduction technology

DAVINCI SOFTWARE OPTIONS

Programmable encoder options from TI:

- H.264 BP
- MPEG-4 SP / H.263
- JPEG

Full embedded Linux 2.6 running on AMR926 coprocessor in DM6446

Video content analytics capable, custom or licensable

EXTERNAL INTERFACES

- Ethernet (RJ-45)
- USB 2.0
- Analog Video (NTSC / PAL)
- Auto-Iris

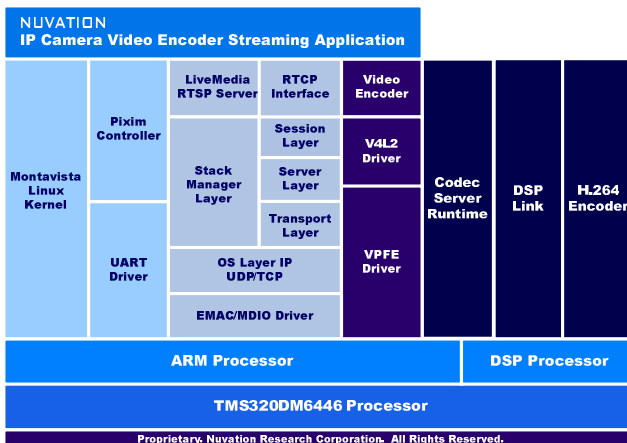
CUSTOMIZATION OPTIONS

- Power over Ethernet (PoE)
- Audio, wireless, other interfaces
- Other customizations from Nuvation's Design Services

DIMENSIONS

- L: 3.25" (79mm), H: 1.7" (43mm), W: 1.8" (47mm) *

*Dimensions include blue enclosure with BNC connector, excludes lens and mounting bracket



Nuvation IP Camera Software Block Diagram

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