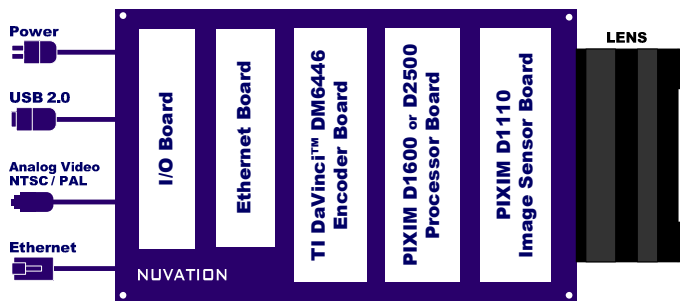


HIGHLIGHTS

- 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
- RoHS compliant
- H.264, MPEG-4/H.263, and JPEG video encoding options
- Video Content Analytics-capable
- Ultra-low power
- Power-over-Ethernet 802.3af-compliant PD controller with integrated DC/DC converter

OVERVIEW

Nuvation's IP Camera with Power-over-Ethernet (PoE) 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 ARM926 coprocessor in DM6446
- Video content analytics capable, custom or licensable

EXTERNAL INTERFACES

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

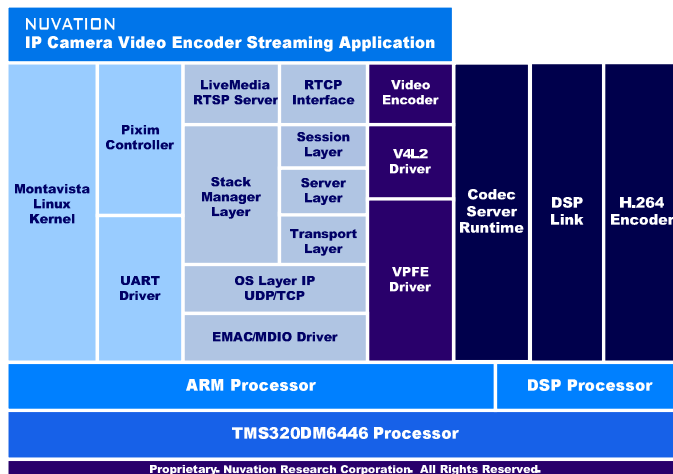
CUSTOMIZATION OPTIONS

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

DIMENSIONS

- L: 4.25" (108mm), 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

CONTACT

EMAIL IP@NUVATION.COM
 WEB NUVATION.COM
 TEL +1-408.228.5580
 FAX +1-408.228.5590