NUVIS-5306RT -SERIES VISION CONTROLLER

N5306RT-DTIO-I7
Nuvis-5306RT Core i7-6700 DTIO v2



- Intel® 6th Gen. Core™ processor
- Supports NVIDIA 75W GPU for GPU-accelerated MV
- Real-time I/O for vision devices
- 4x Gige PoE & 4x USB3.0

PRODUCT DESCRIPTION

Introducing the most powerful vision controller ever built! Nuvis-5306RT integrates every single function you need for machine vision applications in a compact footprint, including exceptional computing power, built-in camera interfaces and real-time vision-specific I/O control.

To ensure high quality images, a MV system requires accurate interaction between lighting, camera, actuator and sensor devices. Nuvis-5306RT integrates LED lighting controller, camera trigger, encoder input, PWM output and digital I/O, to connect and control all the vision devices. All the vision-specific I/O are managed by Neousys' patented MCU-based architecture and DTIO/NuMCU firmware to guarantees microsecond-scale real-time I/O control.

Computing power is another crucial requirement for a vision system. In addition to the remarkable performance brought by its Intel® 6th Gen Core™ i7/i5 CPU, Nuvis-5306RT can further accommodate NVIDIA® 75W TDP GPU to leverage GPU-accelerated vision library or deep-learning vision software. Combining built-in PoE+ and USB 3.0 interfaces and the expandability for CameraLink and CoaXPress, Nuvis-5306RT is the ideal platform for demanding MV applications.

Features:

- Intel® 6th Gen Core™ i7/i5 65W/35W CPU, up to 32 GB DDR4
- Integrated vision-specific I/O
  - 4-CH CC/CV lighting controller
  - 4-CH camera trigger outputs
  - 1-CH quadrature encoder input
  - 8-CH isolated DI and 8-CH isolated DO
- Patented MCU-based, real-time I/O control by DTIO V2 and NuMCU
- Built-in camera interfaces
  - 4-CH IEEE 802.3at Gigabit PoE+ ports
  - 4-CH USB 3.0 ports
- Supports NVIDIA 75W GPU for GPU-accelerated MV

SPECIFICATIONS

12834_Computertype	Edge
AMT	Intel® AMT 11
Chipset	Intel® Q170 Plattform Controller Hub
DC Input	1x 3-pin terminal plug
Depth	240 mm
Height	111 mm
Memory RAM	32 GB
Processor	Intel® Core™ i7-6700 (8M Cache, 3,4/4,0 GHz, 65W)
Remote Control	Yes

Shock Resistance	50 Grms (IEC60068-2-27)
Supply Voltage DC Max	32 V DC
Supply Voltage DC Min	8 V DC
Temperature range bearing, from	-40 °C
Temperature range bearing, to	85 °C
Temperature range from	-25 °C
Temperature range to	60 °C
TPM	TPM 1.2
Vibration Resistance	5 grms, 5-500 Hz, 3 axes (with SSD, according to IEC60068-2-64)
Weight	4.9 kg
Width	225 mm

