IMAGO TECHNOLOGIES

PRODUCT SPECIFICATION

* Product may vary slightly from image

Vision Box Daytona

EMBEDDED INDUSTRIAL VISION COMPUTER

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The core functionality of embedded industrial vision computers is the management of camera, trigger and I/Os. Typically, the space for (smart) cameras is limited and a camera-box-combination makes more sense. Regarding the type of CPU and OS, a multi-core ARM-Linux synthesis is state of the art. Some applications like deep learning, hyperspectral imaging or computing 3D images expect CUDA-compatible accelerators – a good reason for the VisionBox DAYTONA.

Key Features

- Embedded Nvidia Pascal GPU
- RTCC for Trigger-over-Ethernet
- RTCC for Digital In/Out with opto-isolators
- RTCC for RS-422 Input for encoder
- 2 × GigE Vision interface with TaPoE
- 256 CUDA cores
- Quad-core Cortex-A57
- Dual-core Denver2
- Linux OS with IMAGO RTCC SDK
- Embedded system / fanless design
- Long-term availability 2019…2028

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Processor / Storage

Type	Nvidia Jetson TX2, 64 bit
Processor Clock	4-core ARM Cortex-A57 with up to 2.0 GHz & 2-core Denver2 with up to 2.0 GHz
Turbo	-
GPU	256 CUDA core Pascal with up to 1.12 GHz
DDR RAM	8 GB DDR4
Mass Storage	32 GB eMMC (in Jetson module)

Interfaces

Wireless LAN (8 GB version only)	1 × IEEE 802.11a/b/g/n/ac with ext. antenna socket (e.g. hotspot for a tablet)
Display Interfaces	1 x Display Port, 60Hz
USB	2 × USB 3.0 for external peripherals, validation of Linux drivers required

Strassheimer Str. 45; 61169 Friedberg; Germany; Tel. +49-6031-6842611
www.imago-technologies.com; info@imago-technologies.com

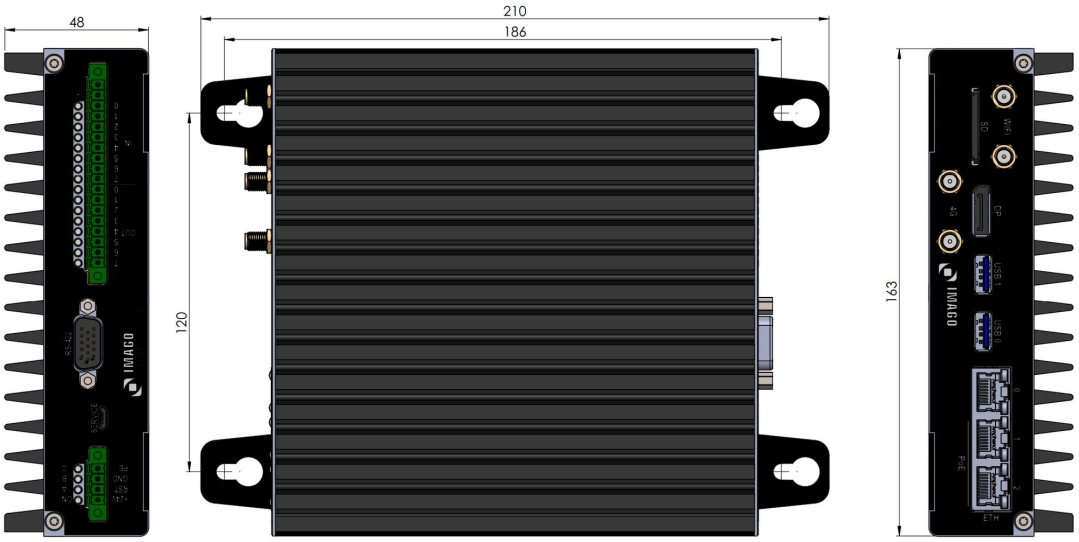
Mechanical / Electrical

Power Consumption	7 W, idle 24 W, typical without PoE usage
Power Supply	20 VDC – 28 VDC
Power Supply Current Rating (peak current)	-
Certification	IP40, CE
Temperature Range	+5 °C … +50 °C (optimum: +20 °C … +30 °C)
Dimension W x H x D	163 mm × 163 mm × 48 mm
Weight	1300 g
Mounting Plate W x H	210 mm × 163 mm
Mounting Support	4 x M4

Documentation

Hompage	Link
SDK Documentation	Link
Hardware Manual	Link

Dimensional Drawing



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The smartest embedded vision components

For more than 30 years, IMAGO has been supplying machine vision technology to machine builders to improve product quality, make processes smoother, avoid production errors, reduce manufacturing costs and make systems more efficient.

What we do

With the focus on what counts for our customers, we develop hardware components for industrial image processing. Be it in factory automation, the printing industry, for the food and beverage industry, pharmaceutical or logistics industry. IMAGO supplies vision systems, smart cameras, vision sensors and the appropriate software for the optimized use of our products. We pay special attention to miniaturization, high frame rates, increasing computing power and environmentally friendly power consumption. These characteristics already distunguish our products today.
And we are proud of them.