

COGNEX IPC5 VISION SYSTEM

VISION CONTROLLER

Features

- Trusted Cognex® brand, pre-qualified hardware and software
- Designed for high-performance machine vision and ease of use
- Cognex-certified cameras and 3D displacement sensors
- Pre-installed VisionPro® and Cognex Designer™ application development software

The Cognex IPC5 Vision Controller directly connects to Cognex industrial GigE cameras. The Industrial, network-ready IPC5 allows for the combination of up to four area scan, line scan cameras.

Integrated and pre-qualified hardware and software does away with third party accessory evaluation and avoids driver incompatibility and similar performance issues to reduce development time and sourcing complexity.

The IPC5 offers high-speed parallel image acquisition from cameras or 3D displacement sensors and includes a rich set of discrete I/O and encoder inputs, deterministic precision I/O sub-system, and networking capabilities for common factory protocols.



Cognex industrial GigE cameras are lightweight digital cameras with a GigE Vision® interface.

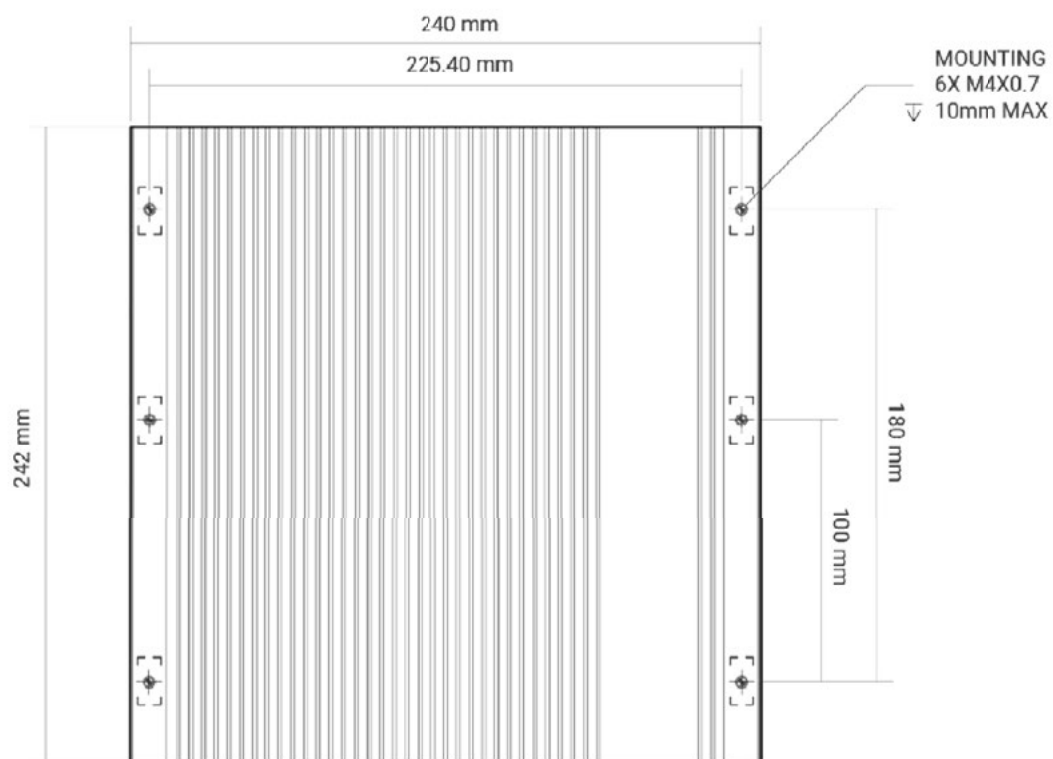
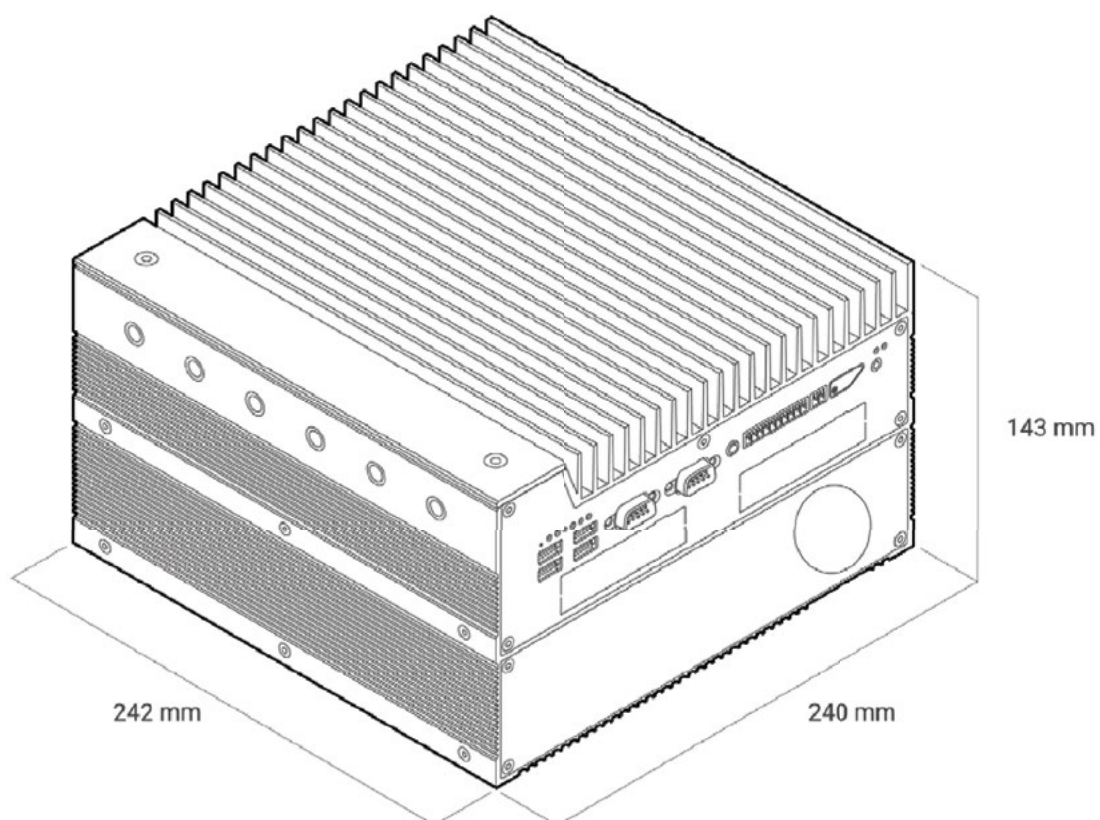


The IPC5 with Cognex Designer Integrated Development Environment (IDE) software turns complex 3D and multi-camera 2D machine vision applications into easily maintainable solutions.



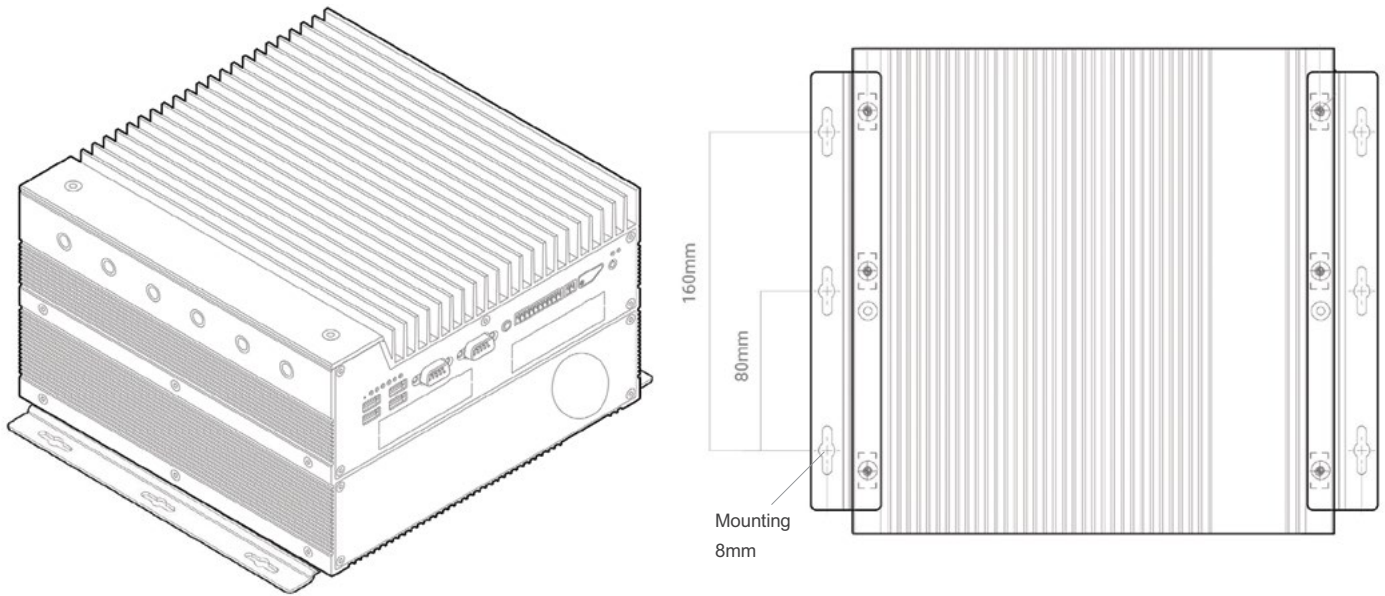
Cognex Designer software makes it faster than ever to create and deploy solutions for the most challenging machine vision applications. Learn more at www.cognex.com/IPC5/

IPC5 Dimensions

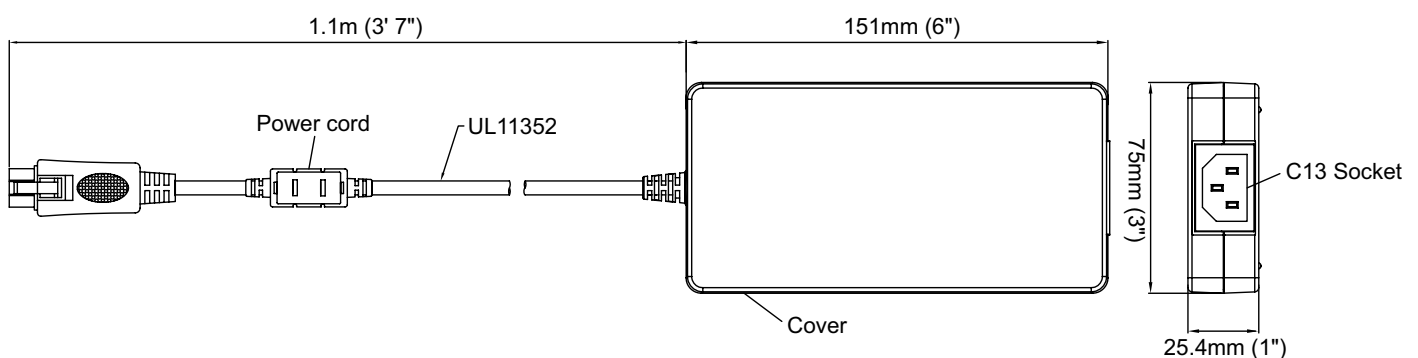


Wall mounting

1. Attach wall mounting brackets to the chassis using:
 - Screw type: M4X0.7 T10 TORX 120°
 - Length: 10mm
2. Mark and prepare holes on the surface for mounting
3. Fasten system to surface. The mounting bracket systems are required to secure 3x the hanging weight of the computer system. The mating substrate must be capable of maintaining the same rating.



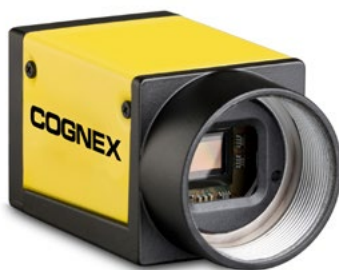
Power supply



*6ft C13 to 120V outlet (US) included

IPC5 VISION CONTROLLER SPECIFICATIONS

System		Expansion & Features	
Processor	Core i5-9500TE	Expansion and Storage	256 GB M.2 NVMe SSD
Processor Speed	2.2 GHz		Dual-slot PCIe expansion (2 PCIe x8)
Processor Cores	6	Onboard Connectors	1 ModBay for I/O Expansion
Chipset	Intel C246	Mechanical	
Integrated Graphics	Intel UHD Graphics 630	Dimensions (WxHxD)	240 x 143 x 242 mm (9.45 x 5.63 x 9.53 in)
Memory	2 DDR4 SO-DIMM slots (16 GB)	Mounting Options	Wall-mount
Rear I/O		Environmental & Regulatory	
Ethernet	1 GbE LAN with Intel I219-LM controller 2 GbE LAN with Intel I210-AT controllers	Operating Temperature	-40°C ~ 70°C with 35W TDP Processor
USB	2 USB 3.1 Gen 1	Storage Temperature	-40°C ~ 85°C
GigE PoE	4 GbE PoE with Intel I210-AT controller (up to 15.4W per ports)	Power Adapter	180W 24V 7.5A
Video	3 DisplayPort	Shock	Tested according to IEC 60068-2-27 and MIL-STD-810G
Power	5-Pin Terminal Block Power Input (9 ~ 48 V) Intelligent Ignition Sensing	Vibration	Tested according to IEC 60068-2-64 and MIL-STD-810G
I/O (via CC24 PCIe card)	24 precision I/O (8in/16out) 4 non-isolated encoder inputs 1 RJ45 Ethernet port dedicated for industrial protocol communications	Certifications	FCC 47 CFR Part 15 Low-Voltage (2014/35/EU) Electromagnetic Compatibility (2014/30/EU) Radio Equipment (2014/53/EU) – Only applicable for configurations with wireless transmitters
Other	3-pin CAN bus External Fan Connection		EN 55032 EN 55035 RoHS 3 (2015/863/EU) WEEE Directive (2012/19/EU) Power Immunity According to E-Mark 7637-2 & 16750-2 EN 50121
Front I/O			
USB	4 USB 3.1 Gen 1		
Serial	2 RS-232/422/485 COM 8-bit Isolated Digital I/O (4-in, 4-out) 2-pin Remote Power Switch		
Other	2 2.5" Hot-Swap Drives (optional) Audio jack (Line-In; Mic-In) External Mini-SIM slot Power button		



GigE
VISION

With GigE Vision, you benefit from robust performance at an affordable price in a compact form factor.

COGNEX

Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs, and control traceability.

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