

- > 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 VC5 Vision Controller directly connects to Cognex industrial GigE cameras and DS1000 series 3D laser displacement sensors. The compact, network-ready VC5 allows for the combination of up to four area scan, line scan or 3D displacement sensors.

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 robust, fanless design has no moving parts, which allows the VC5 to offer high vibration immunity and be suitable for dusty industrial environments.

The VC5 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.



The VC5 with Cognex Designer Integrated Development Environment (IDE) software turns complex 3D and multi-camera 2D machine vision applications into easily maintainable solutions.



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



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/VC5/

Vision System Features

- Area Scan; Line Scan; 3D Displacement Sensors
- VGA to 10MP resolution
- Global and rolling shutters
- Small footprint
- Precise sensor alignment
- Precision I/O with real-time subsystem
- 1-year warranty

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

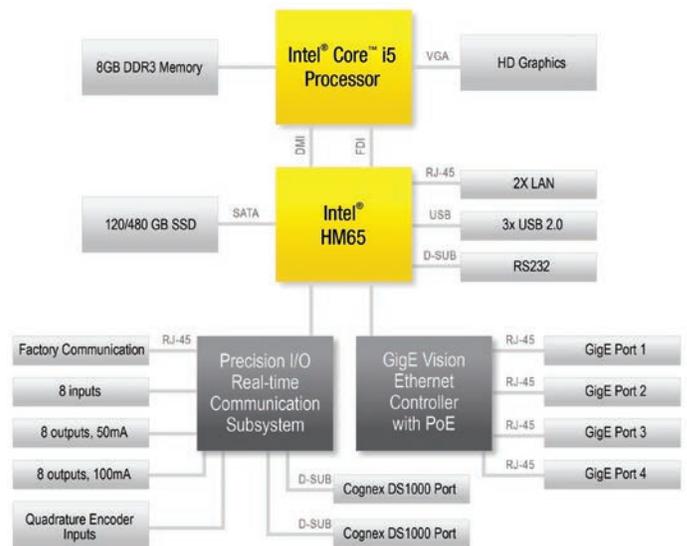


VC5 Vision Controller Specifications

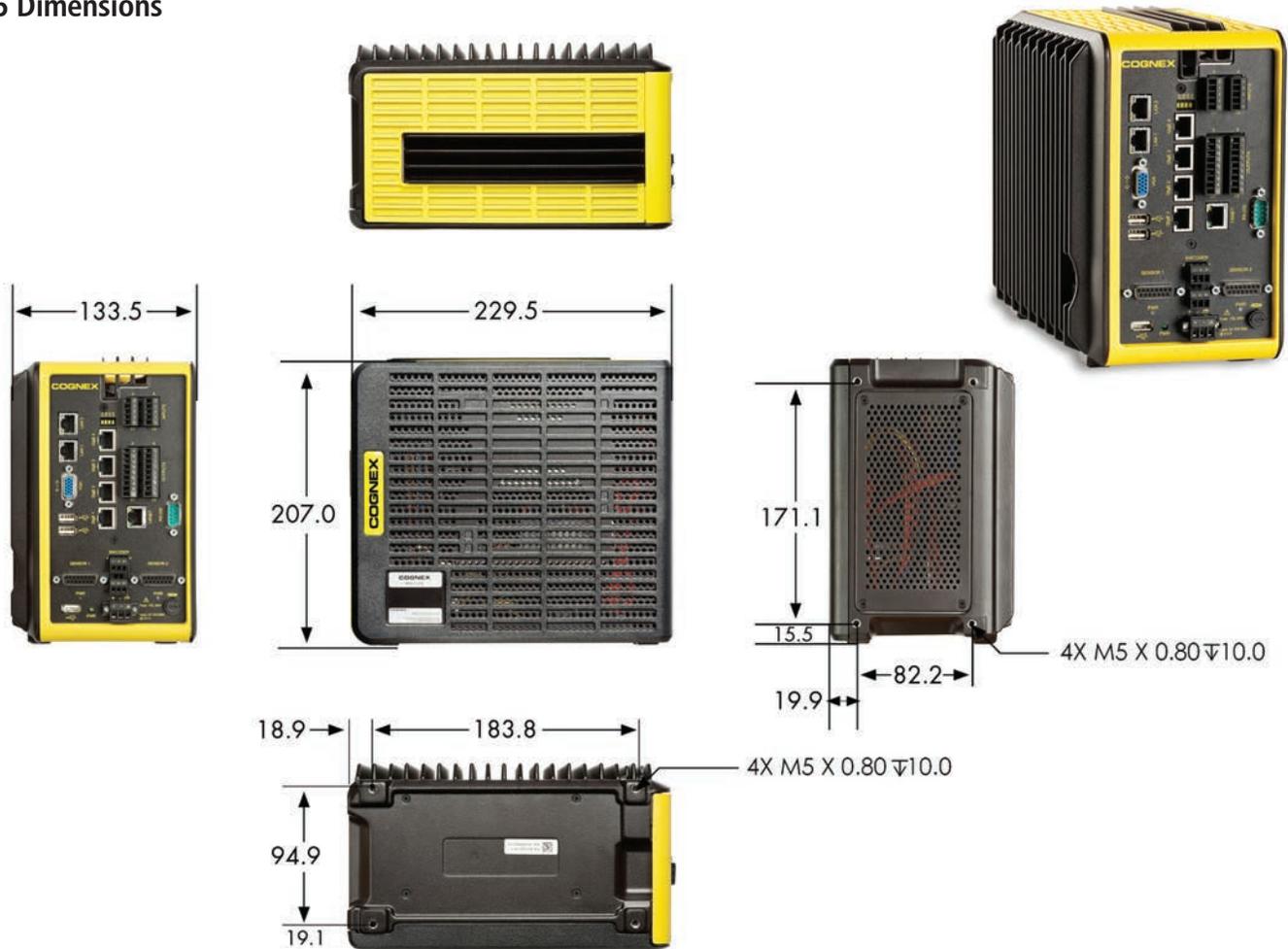
Supported Cognex Devices	Cognex Industrial GigE cameras, Cognex DS1000 series sensors
Job Program Memory	120 or 480GB non-volatile flash memory, unlimited storage via remote network device
Image Processing Memory	8GB SDRAM
Cooling System	Fanless design
Digital Inputs	8 optically isolated discrete inputs
Digital Outputs	16 optically isolated discrete outputs
Encoder Inputs	4 non-isolated encoder inputs
LAN Ports	2 RJ-45 Ethernet ports, 10/100/1000 BaseT IEEE 802.3 TCP/IP Protocol
GigE Ports	4 GigE Vision compatible ports with Power over Ethernet (PoE)
I-ENET Port	1 RJ-45 port for Ethernet-based industrial protocol communications
Sensor Ports	2 DB15 ports that provide power, encoder and trigger connections to Cognex DS1000 series sensors. Each port supplies 24VDC, 500mA maximum.
VGA Port	Analog VGA, DB15 port to connect to monitors up to 1920x1200
USB Ports	3 host USB 2.0 (480 Mb/sec.) ports for connecting HID devices (mouse, keyboard or mass storage device)
RS-232 Port	1 RS-232 port for serial communications
Housing	Aluminum die-cast, aluminum sheet metal and injection-molded ABS housing
Mounting	Four bottom and four backside M5 x 0.8 threaded mounting holes. DIN-rail mountable, using the DIN rail accessory or panel mount using 2-piece sheet metal bracket.
Dimensions	207mm (8.15 in) X 231.9mm (9.06 in) x 133.5mm (5.24 in)
I/O Terminal Connectors	Detachable screw terminals

Power	24 VDC (±10%), 5 amp (max)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-30°C to 80°C (-22°F to 176°F)
Humidity	10% - 85%, non-condensing (Operating and Storage)
Regulatory Compliance	CE, FCC, KCC, TÜV SÜD NRTL, RoHS

VC5 Architecture



VC5 Dimensions



All dimensions are in millimeters

COGNEX Companies around the world rely on Cognex vision and ID to optimize quality, drive down costs and control traceability.

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