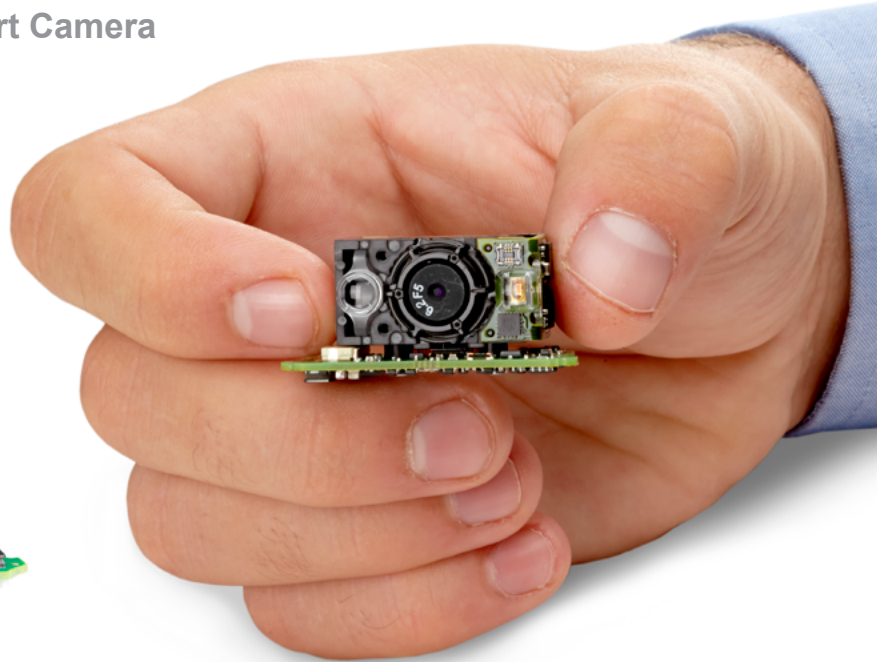
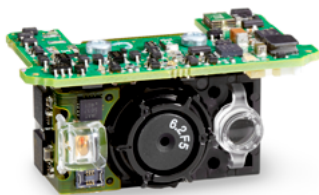


ADVANTAGE ENGINE WITH I/O BOARD

Embedded Image Engine | OEM Smart Camera

- Best-in-class 1D and 2D code reading
- Easy and powerful user interface for software setup
- Flexible optics
- Exceptionally compact design



The Cognex Advantage™ engine products offer original equipment manufacturers (OEMs) the ability to leverage the power of Cognex barcode reading tools in a product that is exceptionally compact and flexible, but also cost effective. The Advantage OEM product family from Cognex delivers best-in-class 1D and 2D code reading. The Advantage engines include a proven, easy-to-use setup tool and are designed for deep integration into OEM products.

Read the Most Challenging Codes

Cognex is the leader in industrial barcode reading technology and the Advantage engines benefit from our market leadership and experience. Advantage engines include the advanced 1DMax® with Hotbars® and 2DMax® code reading algorithms allowing them to read the most difficult codes. Cognex code reading technology provides superior performance even on codes with scratches, voids, low contrast, rotation or specular reflection.

Flexible Integration, Optics and Communications

The Advantage engines allow maximum flexibility for OEMs to custom design Cognex smart camera technology into their product. The Advantage engines provide two communication options—connect, communicate and transfer images via USB or RS-232. The Advantage engines can be integrated with the standard Cognex I/O board with a cable with DB-15 connector for power, I/O and USB or RS-232 communication.

The modular lens design provides the ability to use different lenses for optimal working distance and field-of-view requirements. Plus, the built-in illumination simplifies integration requirements.

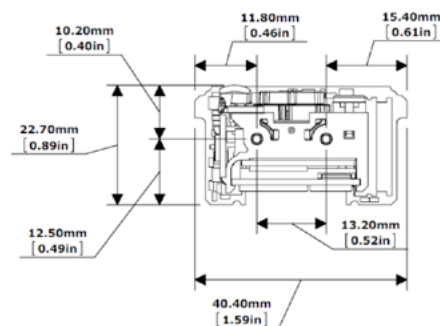
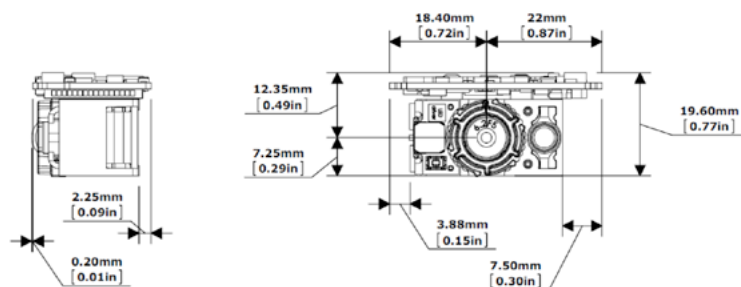
Simple Application Development Software

Advantage engines include the easy-to-use Cognex setup tool to quickly test and develop the barcode reading tools needed for specific requirements. Cognex tools provide unmatched flexibility, ease of use and control.

SPECIFICATIONS

Dimensions	14.5 mm (H) x 29.1 mm (W) x 20.5 mm (L)
Weight	9.5 g (12.4 g with I/O board)
Power	4.5 to 5.5 VDC (2.5 W maximum)
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Illumination	Integrated red LED illumination
Imager	AE2: 752 x 480, 1/3 inch b/w CMOS AE3: 1280 x 960, 1/3 inch b/w CMOS AE3C: 1280 x 960, 1/3 inch color CMOS
Optics	M12 6.2 mm f/5 3-focal position lens standard Optional lenses: 3.5 mm f/6, 6.2 mm f/10, 8 mm f/2, 10.2 mm f/5, 16 mm f/7, 25 mm f/2
Communication	USB and RS-232 (data output)
Connections	Without I/O board: 31-pin ZIF connector With I/O board: RJ-45: Ethernet DB15 or USB-C: power, I/O and serial
Inputs	2 digital (1 general purpose, 1 trigger, 3.3 V LV TTL)
Outputs	3 digital (2 general purpose, 1 external strobe, 3.3 V LV TTL)
Environmental	RoHS- and WEEE-compliant humidity: 95% (non-condensing)
Material	Engine contains no ferrous material
Symbologies	2D: DataMatrix, QR Code; 1D: Code 128, Code 39, Interleaved 2 of 5, Pharmacode, UPC, EAN, Code 93, Codabar, GS1-128, POSTNET, PLANET, Japan Post, Australia Post, UPU, USPS OneCode; Composite: PDF417, Micro PDF417, GS1/Databar

PCB Plug Pin Number	DB15 Pin Number	Description
13	1	No Connect
5	2	RS-232 TxD
7	3	RS-232 RxD
10, 17	4	GND
9	5	Power 4.5-24VDC
8	6	RS-232 RTS
15	7	Output 0
3	8	Trigger
4	9	Input 1
6	10	RS-232 CTS
16	11	Output 1
14	12	Output Common
2	13	Illumination Strobe
12	14	USB 2.0 D+/No Connect
11	15	USB 2.0 D-/No Connect
1	Drain Wire	N/A



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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