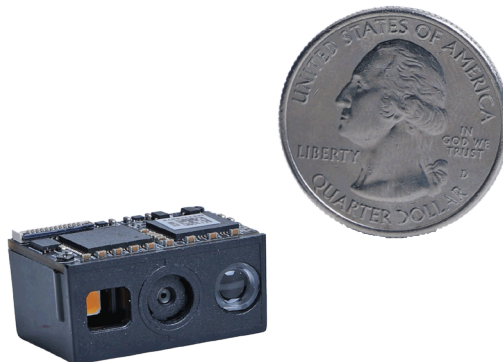


GEA203 Industrial Scan Engine

With a variety of connection interfaces including USB and TTL232, the GEA203 enables seamless and flexible integration into a broad spectrum of devices and applications such as kiosks, ticketing systems, medical equipment, and smart lockers. The GEA203 is specially optimized for screen barcode decoding, offering outstanding performance even under challenging conditions such as low brightness, screen glare, or protective films. It can easily capture high-density barcodes displayed on smartphones, tablets, and monitors with exceptional speed and precision.

MAIN FEATURES

- White Illumination
- Various Connection Interfaces
- Excellent Screen Scanning Capability



PERFORMANCE CHARACTERISTICS

Imager Sensor	CMOS
Optical Resolution	640*480 pixels
Illumination	White LED
Aiming	Red LED
Readability	≥5mil
Field of View	Horizontal 40°, Virtual 31°
Screw, Pitch, Roll	Skew tolerance: ±55° from normal Pitch tolerance: ±55° from normal Roll tolerance: 360° from normal
Supported Symbologies	1D: Code128, EAN-8, EAN-13, UPC-E, UPC-A, ISBN, ISSN, Code11, Interleaved 2 of 5, Code39, Code32, Code93, Matrix 2 of 5, Industrial 2 of 5, IATA25, Codabar, MSI Plessey, GS1 Databar, Plessey, Febraban, Composite 2D: QR Code, Micro QR Code, Datamatrix, PDF417, Micro PDF417, Aztec, Maxicode, Hanxin Code, DotCode

PHYSICAL PARAMETER

Dimension	21.6 x 14.3 x 11mm
Weight	3g
Operation Voltage	DC 3.3V ±5%
Operation Current	180mA
Standby Current	65mA
Interfaces	USB, TTL-232

USER ENVIRONMENT

Ambient Light	0 - 100,000 Lux.
Operating Temperature	-20°C~60°C
Storage Temperature	-40°C~70°C
Humidity	5%~95% non-condensing

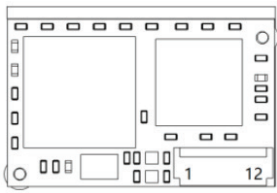
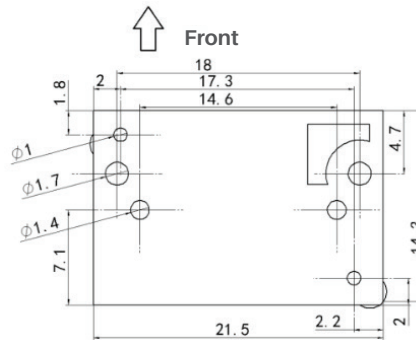
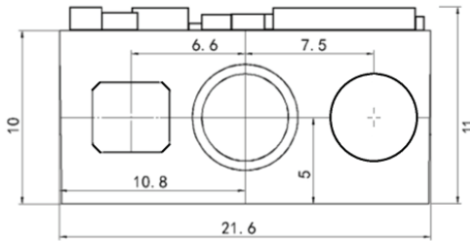
DECODE RANGE

5mil Code39	50 - 125MM
6.67mil PDF417	55 - 130MM
10mil Data Matrix	45 - 150MM
13mil EAN-13	55 - 280MM
13mil Code128	55 - 300MM
15mil QR Code	25 - 190MM

PRODUCT SPEC SHEET

Industrial Scan Engine GEA203

DIMENSIONS



The specific signal definitions for the 12-pin FPC are as follows:

PIN	Definition	I/O	Description
1	NC	-	Floating
2	VIN	-	Power input - 3.3V
3	GND	-	Power Ground
4	RXD	I	TTL level receive
5	TXD	O	TTL level transmit
6	USB_DN	-	USB_D-
7	USB_DP	-	USB_D+
8	NC	-	Floating
9	Buzz	O, od	Buzzer output
10	LED	O, od	Light indicator output of decoding successful
11	NRST	I	Reset signal input, active low. Hold low for more than 100us to reset the device.
12	nTRIG	I	Trigger key input signal, hold low for more than 5ms to trigger code reading.

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