

GEA202 Industrial Scan Engine

GEA202 features warm white illumination and red cross laser aiming. This combination enhanced accuracy, speed, and user comfort. Warm white illumination reduces glare and reflection, making barcodes easier to read in bright or highly reflective environments. Red cross laser ensures precise targeting even in low-light or high-contrast conditions. In addition, cross laser provides a clear visual guide, helping users accurately align the scanner with the barcode, reducing misalignment errors and minimizes the need for multiple scan attempts. What's important is the warm lighting is softer on the eyes, reducing eye strain for workers performing repetitive scanning tasks.

MAIN FEATURES

- White Illumination
- Red Cross Laser Aiming
- Super Low Power Consumption



PERFORMANCE CHARACTERISTICS

Imager Sensor	CMOS
Optical Resolution	640*480 pixels
Illumination	White LED
Aiming	Red Cross Laser
Readability	≥3mil
Field of View	Horizontal 37.6°, Virtual 28.7°
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, UPCE0, UPCE1, 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, GS1 Databar Limited, GS1 Databar Expanded, Composite 2D: QR Code, Micro QR Code, Datamatrix, PDF417, Micro PDF417, Aztec, Maxicode, Hanxin Code, DotCode, Composite

PHYSICAL PARAMETER

Dimension	23.5 x 6.9 x 10.6mm
Operation Voltage	DC 3.3V
Operation Current	135mA
Standby Current	10mA(USB), 22mA(UART)
Interfaces	USB(HID-KBW, VCP), TTL - Serial Port

USER ENVIRONMENT

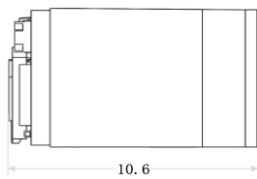
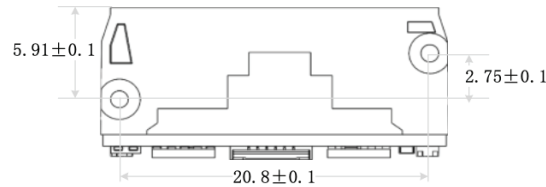
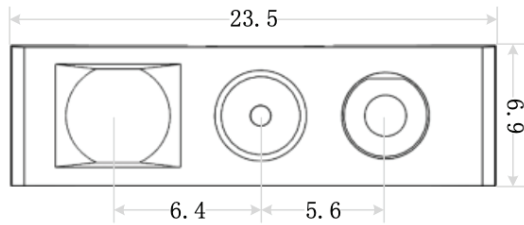
Ambient Light	0 - 100,000 Lux.
Operating Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Humidity	5%~95% non-condensing

DECODE RANGE

5mil Code39	55 - 120MM
6.67mil PDF417	55 - 145MM
10mil Data Matrix	45 - 150MM
13mil EAN-13	55 - 350MM
13mil Code128	55 - 350MM
15mil QR Code	25 - 230MM

PRODUCT SPEC SHEET

Industrial Scan Engine GEA202

DIMENSIONS

The specific signal definitions for the 13-pin FPC are as follows:

PIN	Definition	I/O	Description
1	GND	-	Power input - Negative
2	nTRIG	I	Trigger key input signal, hold low for more than 5ms to trigger code reading.
3	nRST	I	Reset signal input, active low. Hold low for more than 100us to reset the device.
4	LED	O	Light indicator output, idle output low level
5	BUZZER	O	Passive buzzer output, idle output low level
6	EXT.LED.CTRL	O	External Lighting Control
7	USB_D+	-	USB_D+
8	USB_D-	-	USB_D-
9	UART_TX	O	TTL level transmit
10	UART_RX	I	TTL level receive
11	GND	I	Power input - Negative
12	VCC	I	Power input - positive 3.3V
13	VCC	I	Power input - positive 3.3V

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