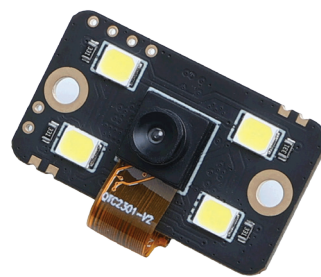


GEA401 Industrial Scan Engine

The GEA401 delivers strong decoding performance for both printed and on-screen barcodes, making it an excellent all-around solution for diverse usage scenarios, including retail point-of-sale terminals, mobile payments, and service counters. Its integrated white LED illumination ensures clear and accurate barcode recognition across various backgrounds and materials - including paper, plastic, and electronic screens - providing stable performance even under poor lighting conditions. Whether used in traditional stores or modern digital payment environments, GEA401 combines efficiency, versatility, and ease of use to meet the demands of today's complex service applications.

MAIN FEATURES

- White Illumination
- Paper and Screen Code Reading Available
- Dimension and Mounting Holes Align with Mainstream Standards



PERFORMANCE CHARACTERISTICS

Optical Resolution	640*480 pixels
Illumination	White LED
Readability	3mil and above
Field of View	Horizontal 68°, Virtual 54°
Screw, Pitch, Roll	Skew tolerance: $\pm 55^\circ$ from normal Pitch tolerance: $\pm 55^\circ$ from normal Roll tolerance: 360° from normal
Supported Symbolologies	1D: Code128, Code39, Code32, Code39 full ASCII, Trioptic Code39, Code93, UPC-A, Code128(ISBT 128, AIM128, GS1 128), EAN-8, EAN-13, UPC-E, UPC-A, ISBN, ISSN, Code11, Interleaved 2 of 5, Code39, Code32, Code93, Codabar, Matrix 2 of 5, Industrial 2 of 5, IATA25, MSI Plessey, GS1 Databar, Plessey, Febraban, Composite 2D: QR Code, DataMatrix, PDF417, Micro QR Code, Micro PDF417, Hanxin Code, Aztec, Maxicode, Dotcode, Composite

PHYSICAL PARAMETER

Dimension	21.5 x 8.8 x 7mm
Operation Voltage	DC 3.3V
Operation Current	160mA
Standby Current	10mA(USB), 22mA(UART)
Communication	TTL - Virtual Serial Port
Interfaces	USB(HID-KBW, VCP)

DECODE RANGE

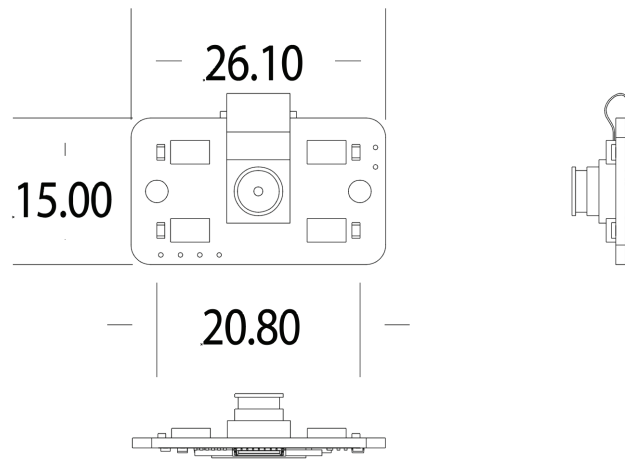
3.3mil Code39	100 - 200MM
5mil Code39	70 - 320MM
6.7mil PDF417	95 - 270MM
10mil Data Matrix	80 - 280MM
13mil EAN-13	50 - 720MM
15mil QR Code	30 - 400MM

USER ENVIRONMENT

Ambient Light	0 - 100,000 Lux.
Operating Temperature	-20°C~55°C
Storage Temperature	-40°C~70°C
Humidity	5%~95% non-condensing
Certificate	CE, FCC, ROHS, IEC62471

PRODUCT SPEC SHEET

Industrial Scan Engine GEA401

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

GENERALSCAN

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