

# **GEA301 Industrial Scan Engine**

GEA301 is equipped with a global shutter sensor, ensuring superior scanning accuracy and reliability, especially when capturing high-speed or moving barcodes. It captures the entire image in a single moment, eliminating motion blur and distortion. This makes it ideal for dynamic industrial environments, logistics operations, and other fast-paced applications. Its white LED illumination provides bright, neutral lighting that significantly enhances barcode visibility on a wide range of surfaces, including glossy, reflective, and curved materials. This ensures consistent decoding performance regardless of ambient lighting conditions.

## **MAIN FEATURES**

- Global Shutter
- Red LED Aiming
- White LED Illumination
- Low Power Consumption





#### PERFORMANCE CHARACTERISTICS

#### PHYSICAL PARAMETER

Dimension	21.5 x 7 x 9.9mm
Operation Voltage	3.2 - 3.6V
Operation Current	280mA
Standby Current	40mA(USB), 45mA(USB off)
Communication	UART 3.3V, USB HID,
Interfaces	USB Vitrual Com Port

#### **USER ENVIRONMENT**

Ambient Light	0 - 100,000 Lux.
Operating Temperature	-20°C~65°C
Storage Temperature	-40°C~70°C
Humidity	5%~95% non-condensing

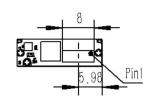
#### **DECODE RANGE**

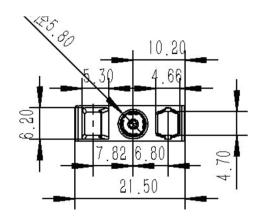
3mil Code39	55 - 160MM
5mil Code39	45 - 300MM
6.7mil PDF417	45 - 200MM
10mil Data Matrix	45 - 250MM
13mil EAN-13	50 - 600MM
15mil QR Code	30 - 300MM

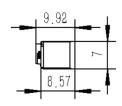
### **PRODUCT SPEC SHEET**

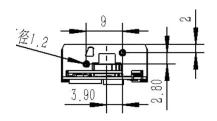
Industrial Scan Engine GEA301

## **DIMENSIONS**









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

PIN	Definition	I/O	Description
1	NC	-	Floating
2	VCC	I	Power input - 3.2 - 3.6V
3	GND	-	Power Ground
4	RX	I	TTL level receive
5	TX	0	TTL level transmit
6	D-	0	USB_D-
7	D+	1	USB_D+
8	NC	-	Floating
9	Buzz	O, od	Buzzer output
10	LED	O, od	Light indicator output of decoding successful
11	NC	-	Floating
12	nTRIG	Ī	Trigger key input signal, hold low for more than 5ms to trigger code reading.

## **GENERALSCAN**

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