



# ES40 OEM Scan Engine

## Integration Guide



# About This User Guide

Please read all the content of the user guide carefully to use the products safely and effectively. You are advised of keeping it properly for your using reference.

## Disclaimer

Please do not dismantle the product or tear up the seal on it, otherwise we won't provide warranty or replacement service.

The pictures in this user guide are for reference only. If there are any pictures which not match the actual product, please take actual products as the standard. Updated information is subject to change without notice.

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## Service Information

For technical assistant or product service and repair, please contact YidaScan. Visit our website to learn more: [www.yidascan.com](http://www.yidascan.com)

# About the Manual

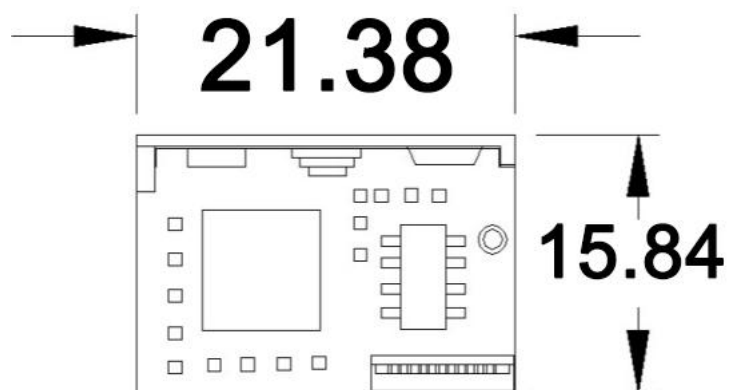
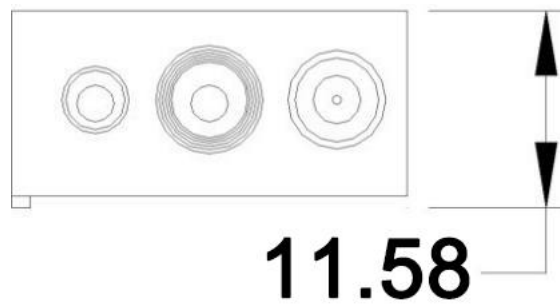
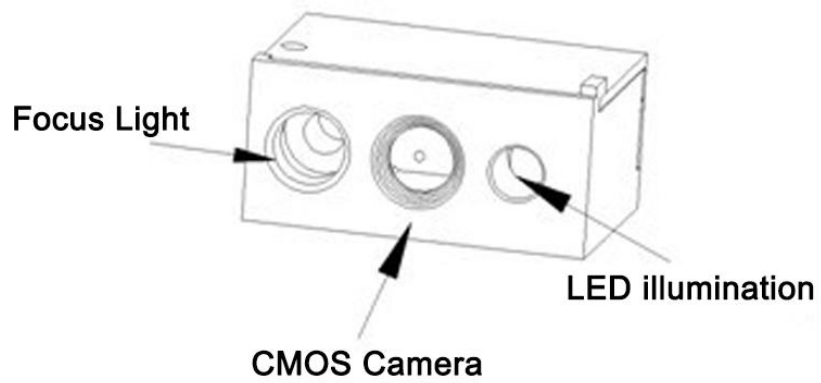
## 1.Introduction

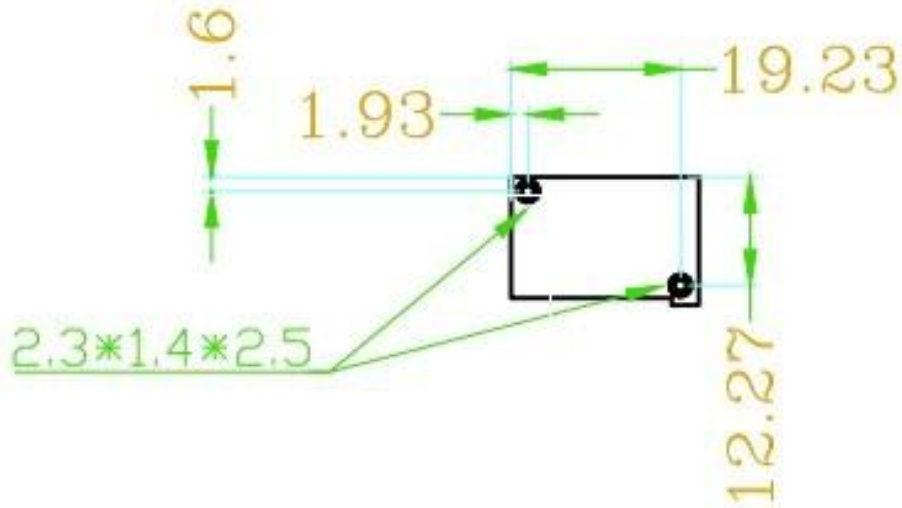
The ES40 2D barcode scan engine is powered by a 1280\*960 global shutter industrial CMOS sensor, with superior scanning performance.

## 2.Symbologies

1D	(Codabar)、(Code 39)、(Code 32)、(Interleaved 2 of 5)、(Industrial 2 of 5)、(Matrix 2 of 5)、(Code 93)、(Code 11)、(Code 128)、(GS1-128)、(ISBT 128)、(UPC-A)、(UPC-E)、(EAN/JAN-8)、(EAN/JAN-13)、(GS1 DataBar(RSS14))、(Standard 2 of 5)、(Qlessey)、(Msiplessey)
2D	(PDF417)、(Micro PDF417)、(QR Code)、(Micro QR)、(Data Matrix)、(Aztec)、(Hanxi code)

### 3. Structure: (mm)



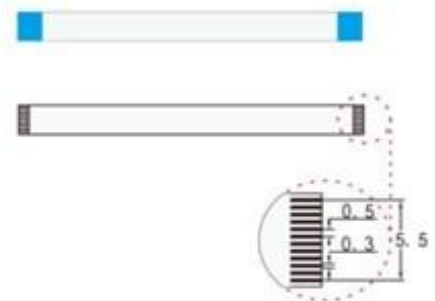
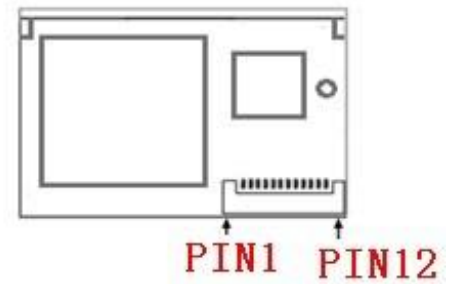


#### 4.Interface:

ES40 uses a 12 pin flexible flat cable with a PIN pitch of 0.5mm for connection. One end of the cable is connected to the 12pin connector of the module, and the other end is connected to peripheral devices.



FFC 排线示意图FC 排线行



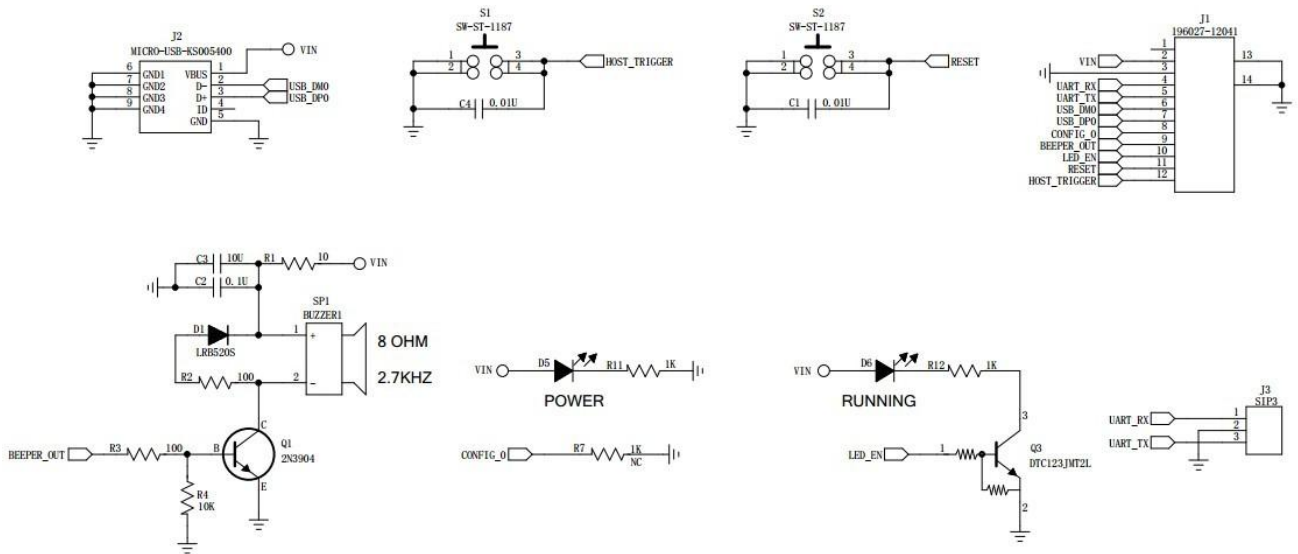
## 5.PIN 12 OUT:

PIN#	Name	I/O	Description
1	NC	-	Not Connected
2	VIN	POWER	Power Supply
3	GND	POWER	Power-supply Ground
4	UART_RX	IN	TTL level 232 receive data
5	UART_TX	OUT	TTL level 232 transmit data
6	USB_DM0	I/O	USB D- differential data signal
7	USB_DP0	I/O	USB D+ differential data signal
8	CONFIG_0	IN	Empty
9	BEEPER_OUT	OUT	Beeper output
10	LED_EN	OUT	LED Output
11	RESET	IN	Reset signal input: Driving this pin low for 100us-500us resets the engine
12	HOST_TRIGGER	IN	Trigger signal input: Driving this pin low for at least 10ms causes the engine to start a scan and decode session.

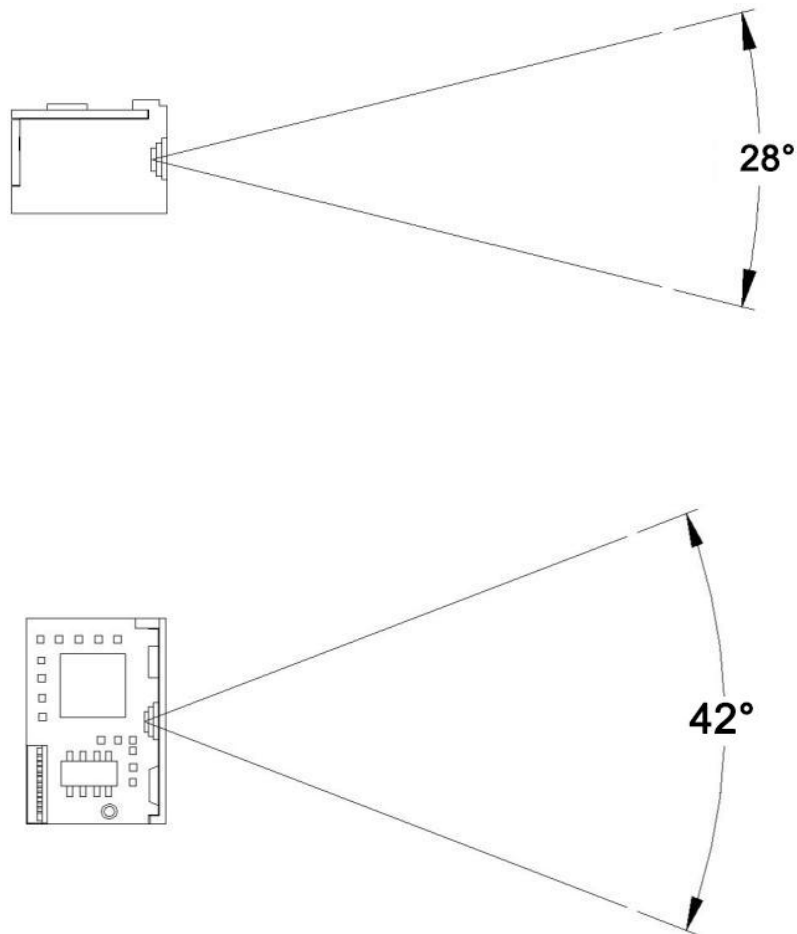
Attention: the signal TRIGGER pin cannot be connected to a pull-up resistor, nor can it be connected to a capacitor.

## 6.Control Circuit:

Tail board design circuit needs to be issued separately.



## 7.FOV:



## 8.Symbologies and Default Configuration:

Symbologies	Support	Enable by default
Codabar	√	√
Code39	√	√
Code32	√	√
Interleaved 2 of 5 (ITF25)	√	√
Industrial 2 of 5	√	√
Matrix 2 of 5	√	√
Code93	√	√
Code11	√	X
Code128	√	√
Gs1-128	√	√
UPC-A	√	√
UPC-E	√	√
EAN/JAN-8	√	√
EAN/JAN-13	√	√
ISBN	√	X
ISSN	√	X
GS1 databar	√	√
GS1 databar limited	√	√
GS1 databar expanded	√	√
PDF417	√	√
MICRO PDF417	√	√



QR CODE	√	√
MICRO QR	√	√
DATA MATRIX	√	√
AZTEC CODE	√	√
ISBT	√	√
MSI	√	X
Febraban	√	X
Maxicode	X	

## 9.Function:

Function	Default Setting
ASCII Control Character	Turn off
USB Transmission Speed	Low Speed
Caps Lock	Lower Case
Countries Keyboard	English-USA
Virtual Keyboard	Disable
Screen Mode	Disable
Custom Prefix/Suffix	Not supported
Reverse Codes	Turn off
Data format edit	Turn off
AIM ID, CODE ID	Turn off
Febraban	Turn off