N–1

OEM CCD Scan Engine

Compact Size Height: 17.5 mm Width: 31 mm Length: 29 mm

Width: 2 Length: 2 9 0 5 0 1 9 8 · col level 10 5 0 1 9 8 · col level 10 5 0 1 9 8 · col level 10 5 0 1 9 8 · col level N1 is compact & lightweight scan engine equipped with ARM processor. The user-friendly N1 fully packaged CCD reader, offering easy integration and several configurations to meet a variety of need. Advanced CCD technology provides reliable reading performance for small, damaged or poorly printed codes. N1 is deal scan engine for OEM design engineers seeking a dependable and inexpensive embedded bar code scanning solution.

Available Codes

Linear

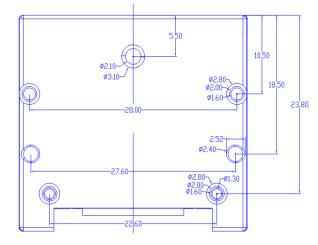


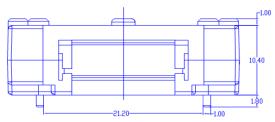
Stacked

GS1 Databar (RSS)

Application Examples

- Kiosks
- Point-of-sale terminals
- •Bank ATMs
- Robotics
- ·Clinical instruments





Depth of Field Code 39 - 3 mil 6 to 7 cm Code 39 - 5 mil 6.5 to 10 cm Code 39 - 10 mil 5 to 19 cm 100% UPC - 13 mil 5 to 22 cm

HOST CONNECTOR/PIN ASSIGNMENTS 12-Pin ZIF Connector

Pin	Signal	I/O	Control Status	Description
	Name			
1	CTS	Input		Clear To Send control signal.
2	RTS/	Output		Request To Send control signal and
	PC/Data			PC/AT KB/Port Data signal.
3	GND			System Ground.
4	LED/	Output	H=LED OFF	Active low output used to indicate
	Out		L=LED ON	a valid barcode decode.
5	Trigger	Input	L=Start	Used to start decode session.
			Session	
			H=Inactive	
6	BEEPER/	Output	H=Normal	Pulse width modulated output used to
	Out		L=Active	control an external beeper.
7	USB+	Output		Positive differential data signal for the
				USB bus.
8	USB-	Output		Negative differential data signal for the
				USB bus.
9	KBEN	Output		Keyboard interface Control K/B IC S/W
				4066 use.
10	TXD	Output		Transmit data.
11	RXD/	Input/		Receive data and PC/AT KB/Port CLK
	PC/clk	Output		signal.
12	VDD			Power Input DC + 5V

MECHANICAL

Height: 17.5 mm Width: 31 mm Length: 29 mm Weight: 10 g

DESIGN

CCD linear image sensor **Optics:** 660 nm visible LED

SCANNING PERFORMANCE

Scan rate: 270 scans/sec

Resolution: 3 mil

Depth of field:5 to 220mm (13 mfil)

COMMUNICATION

Interface: USB HID / KBW / RS-232 TTL

CONNECTOR

Type: 12-pin ZIF connector

SYMBOLOGIES

UPC (E&A), EAN, Code 39, Code 128, UCC EAN 128, Interleaved, Industrial and Standard 2 of 5, Codabar, Code 93, MSI, Plessey, GS1 Databar (RSS)

ENVIRONMENTAL CHARACTERISTICS Operating temperature: 0 to 55° C

Storage temperature: -20 to 60° C

Relative humidity:

10% to 90% (non-condensfing) **Ambient light:** Works in any lighting condfittions, from 0 to 10,000 lux

ELECTRICAL

Power: 5V +/-5% 120 mA @ 5 VDC (typ.)