



11.4 mm H x 20.6 mm W x 22.5 mm D

Features & Benefits:

- High Performance
Reads Up to 200 Scans
Per Second
- Reliably Reads Codes
Down to 4 mils
Resolution
- Visible Aimer Casts
Bright & Sharp LED
Illumination
- No Moving Parts and
Rated MTBF Above
250,000 Hours Provides
Excellent Reliability
- Battery-Friendly
Optimized for Running
on Low Power Sources
(3.3V, <120 mA)
- USB or RS232 TTL
Interface Flexibility

Compact, Entry-Level Linear Scan Engine

Combining compact size with great scanning performance, the JE-128 is the value version of JADAK's JE-107. JE-128 is ideal for Original Equipment Manufacturer (OEM) applications, in both portable and fixed devices, where space is limited for scanner integration.

JE-128 is a linear CMOS sensor that uses Active Pixel Sensor (APS) technology. With no moving parts and no laser diode, the JE-128 is designed to be very reliable. With an MTBF above 250,000 hours, it has a longer life than typical laser scanners. Its rugged design enables it to withstand 2000G shocks and 8G vibrations, and it can be used in a wide temperature range.

The JE-128 provides easy electrical connection. The 3.3V low power operation is ideal for preserving battery life in mobile applications. Additionally, the standby current is reduced to micro amps to preserve the host device battery when the scan engine is not in use.

To meet the growing demand for e-coupons, virtual loyalty cards and access control applications, the JE-128 is capable of reading bar codes displayed on LCD or mobile phone screens. A high scan rate and depth of field make it possible to read poorly printed, damaged, low contrast, wide or high density bar codes.

The JE-128 uses a unique 617nm illumination system to provide a safe and sharp aiming line, even in brightly lit or backlit conditions.

The JE-128 is field upgradable with flash memory. It can run on either a USB or RS232 TTL interface, making it compatible with JADAK's existing 2D image decode boards. This interchangeability makes it easy to switch from 1D to 2D imaging in your designs.

Applications:

- Handheld terminals
- PDAs
- PC and Cell phone peripherals
- Lottery terminals
- Time and attendance terminals
- Automated access control
- Sorting machines



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Performance			
Processor:	New generation CPU		
Sensor:	APS CMOS Linear Image		
Light Source:	617 nm bright and sharp scanning line		
Scan Rate:	200 scans/second		
Scan Angle:	40°		
Print Contrast:	Down to 25%		
Min X Dimension:	.10 mm (4 mils)		
Reading Distance:	Up to 51 cm (20 in.)		
Regulatory:			
	UL Recognized Component, LED Class 1, VDE Certified		
Environmental:	RoHS Compliant, China RoHS, WEEE Compliant		
Mechanical / Electrical			
Dimensions (HxWxD):	11.4 mm x 20.6 mm x 22.5 mm (.45" x .81" x .89")		
Weight:	12 g		
Interface:	Decoded Mode: USB 2.0 full speed and RS232 TTL		
Connection:	ZIF Connector, 12-pin, pitch of .5 mm (.2")		
Voltage:	3.1 to 3.6V		
Current:	<120 mA typical @ 3.3V		
Standby Current:	<60 µA		
Environmental / Other			
Operating Temperature:	-30°C to 50°C (-22°F to 122° F)		
Storage Temperature:	-40°C to 70°C (-40°F to 158°F)		
Relative Humidity:	5% - 95% non-condensing		
Ambient Light:	Works in any lighting conditions (0 to 100,000 Lux)		
Shock Rating:	2000 G, .7 mx, half sinus, 3 axes		
Vibration:	Random, 8 grms, 10-500 Hz, 3 axes		
Symbolologies			
	Density	Minimum Distance	Maximum Distance
Code 39	.1 mm / 4 mils	9.5 cm / 3.74 in.	16 cm / 6.3 in.
	.125 mm / 5 mils	9 cm / 3.54 in.	19 cm / 7.48 in.
	.15 mm / 6 mils	8.5 cm / 3.35 in.	21 cm / 8.27 in.
	.2 mm / 8 mils	7.5 cm / 2.95 in.	24 cm / 9.45 in.
	.5 mm / 20 mils	5 cm / 1.97 in.	34 cm / 13.39 in.
	1 mm / 40 mils	11 cm* / 4.33 in. (Minimum distance depends on barcode)	51 cm / 20.08 in.
UPC/EAN	.33 mm / 13 mils	5.5 cm / 2.17 in.	28 cm. / 11.02 in.
Symbolologies			
	UPC (E&A), EAN, GS1 dataBar, Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved, Matrix, Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepan		

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting. The company is ISO 9001 and ISO 13485 registered.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

www.jadaktech.com

