



23.5 mm L x 16.2.8 mm W x 6.8 mm H

Features & Benefits:

- Slim, Compact Design for Easy Integration and Shorter Design Cycles
- Optimized White Illumination Reads All Barcodes
- Aimer Gives Clear, Sharp and Easily Observed Target Area
- Fast Scan Speed and Motion Tolerance Up to 5 Meters/Second for Excellent Reading Capability
- Support for Color Barcodes and Full Symbology
- Fast & Accurate Reading



Decoding Board (DB-206) is miniature decoder board that can be used with JE233.

Miniature, High Performance, Half Megapixel Image Engine

The JE-233 area-imaging engine integrates JADAK's high performance decoding technology for unparalleled 1D and 2D scanning performance in a slim and compact footprint. The JE-233 delivers a superior barcode reading, with outstanding speed and unrivaled accuracy. JE-233 also provides a better user experience and more integration convenience.

Inside the ultra-compact JE-233 series engine, an embedded proprietary imaging sensor is designed specifically for professional barcode reading. With powerful white illumination, this compact but powerful sensor captures more detail and is exceptionally motion tolerant—making it easy to decode hard-to-read barcodes under challenging ambient light environments.

Interface flexibility was designed into the JE-233 series. It supports both traditional parallel and MIPI interfaces for emerging technologies. This enables easier integration with the latest processors, saves space, reduces overall design cost and shortens the integration and development cycle. The JE-233 series is also backwards-compatible, reducing development complexity and making it easier and faster to integrate.

The JE-233 is available with a high-visibility LED based aimer that provides an ultra-clear and sharp green line, making targeting and scanning easy. The JE-233 series is a smart choice for those who do not want to compromise thermal management, power consumption, peak current control and EMI for unmatched 2D scanning performance.

Applications:

- Enterprise mobility, including mobile phone screens
- Tablets and sleds
- Wearable devices



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Performance:	
Sensor	Proprietary CMOS sensor with global shutter and 844 x 640 pixel resolution; 60 frames per second; optional color
Illumination	White LED (exempt risk group)
Aiming	LED Aimer: 528 nm visible green
Motion Tolerance	Up to 584 cm (230") per second in total darkness with 100% UPC at 10 cm (4") distance
Field of View	42.4° (Horizontal), 33.0° (Vertical)
Scan Angles	Tilt: 360°, Pitch: ± 45°, Skew: ± 60°
Symbol Contrast	20% minimum reflectance
Symbologies	Linear: UPC/EAN/JAN, GS1 DataBar, Code 39, Code 128, Code 32, Code 93, Codabar/NW7, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, MSI, Telepen, Trioptic, China Post 2D Stacked: PDF417, MicroPDF417, GS1 Composite 2D Matrix: Aztec Code, Data Matrix, QR Code, Micro QR Code, MaxiCode, Han Xin Code Postal: Intelligent Mail Barcode, Postal-4i, Australian Post, British Post, Canadian Post, Japanese Post, Netherlands (KIX) Post, Postnet, Planet Code OCR Option: OCR-A, OCR-B, E13B (MICR)
Mechanical/Electrical:	
Dimensions (LxWxH)	23.5 mm x 16.2 mm x 6.8 mm
Weight	37g
Interface	Imager: Parallel camera data, CSI-2 MIPI
Input Voltage	Imager: 3.3VDC ± 5%
Typical Current Draw@3.3VDC	JE-233-02: 175 mA (manual trigger); 90 µA (sleep) JE-233-03: 195 mA (manual trigger); 90 µA (sleep)
Environmental/Other	
Temperature	Operating: -25°C to 50°C (-13°F to 122°F); Storage: -40°C to 85°C (-40°F to 185°F)
Humidity	0 to 95% relative humidity, non-condensing, at 50°C (122°F)
Ambient Light	0–100,000 lux (total darkness–bright sunlight)
Shock Rating	3,500 G for 0.4 ms at 23°C (73°F)
Vibration	Displacement of 5.1 mm(0.2") peak-to-peak from 5 Hz to 22 Hz, with acceleration of 5 g's peak from 22 Hz to 300 Hz
MTTF	375,000 hours
Standard Range (SR) Optics	100% U.P.C.: 46 mm – 419 mm (1.8" – 16.5") 5 mil Code 39: 64 mm – 163 mm (2.5" – 6.4") 10 mil Code 39: 28 mm – 338 mm (1.1" – 13.3") 6.7 mil PDF417: 46 mm – 185 mm (1.8" – 7.3") 10 mil Data Matrix: 53 mm – 203 mm (2.1" – 8.0")
Resolution	Linear Barcodes: 0.127 mm (5.0 mil) 2D Matrix Codes: 0.169 mm (6.7 mil)

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.

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