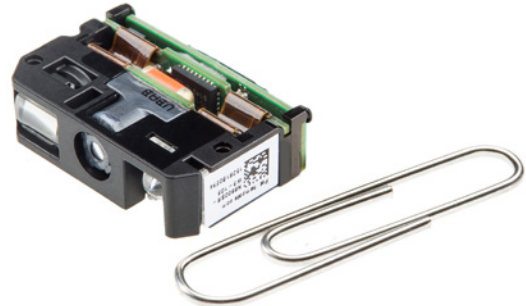


N6600 Series Ultra-Slim Area-Imaging Engine

High performance barcode imaging has never been so slim and compact. The N6600 series integrates Honeywell's Adaptus 6.0 technology for unparalleled 1D and 2D scanning performance, and also provides a better user experience and more integration convenience than ever before.

Built on an industry-leading imaging platform, Adaptus 6.0 technology delivers a superior barcode reading experience, with outstanding speed and unrivaled accuracy. Inside the ultra-compact N6600 series engine, a proprietary imaging sensor is embedded that is designed specifically for professional barcode reading. With its powerful white illumination, this compact but powerful sensor capture more detail and is exceptionally motion tolerant—making it easy to decode hard-to-read barcodes and tolerate challenging ambient light environments.

Interface flexibility was paramount in the design of the N6600 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 N6600 series is also backwards-compatible with nearly all N5600 series designs, which reduces development complexity and makes it easier and faster to integrate.



The N660 series area-imaging engine enables high performance scanning in an incredible compact footprint.

The N6600 series is available with a LED based aimer. This high visibility LED aimer provides an ultra-clear and sharp green aimer line that makes targeting and scanning easy.

As the next-generation flagship product, the N6600 series inherits the most advanced imaging technology from both Honeywell and legacy Intermec. It is also a smart choice for enterprise mobility, tablet, sled and wearable device makers who do not want to compromise thermal management, power consumption, peak current control and EMI for unmatched 2D scanning performance.

FEATURES & BENEFITS



The slimmest height in the industry at only 6.8 mm. Perfect for integration into tomorrow's ultra-slim devices.



Supports the latest technology trends for shorter design cycles.



Optimized white illumination helps you read all barcodes. Highly visible aimer gives a clear, sharp and easily observed target area.



Delivers fast scan speed, ultra-fast motion tolerance up to 5 meters per second, excellent reading capability for poorly printed barcodes, support for color barcodes, and full symbology support.



Provides fast and accurate reading of barcodes and OCR fonts with best-in-class range and extraordinary motion tolerance, even on hard-to-read codes as well as those displayed on mobile phone screens.

N6600 Series Technical Specifications

PERFORMANCE

Sensor: Proprietary CMOS sensor with global shutter and 844 x 640 pixel resolution
Illumination: White LED (exempt risk group)
Aiming: Green Linear LED
Typical Frame Rate: 60 frames per second (max.)
Motion Tolerance: Up to 584 cm (230") per second in total darkness with 100% UPC at 10 cm (4") distance
Field of View: Horizontal Field Angle: 42.4°
Vertical Field Angle: 33°
Scan Angles: Tilt: 360°, Pitch: ± 45, Skew: ± 60°
Symbol Contrast: 20% minimum reflectance
Symbolologies:
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): N6600: 23.5 x 16.2 x 6.8 mm typical
Weight: 3 g
Interface:
Imager: Parallel camera data, CSI-2 MIPI
Input Voltage:
Imager: 3.3 VDC ± 5%
Typical Current Draw @ 3.3VDC:
N6600-102: 175 mA (manual trigger); 90 µA (sleep)
N6600-103: 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 to bright sunlight)
Shock Rating: 3500 G for 0.4 ms at 23°C
Vibration: Displacement of 5.1 mm (0.20") p-p from 5 Hz to 22 Hz and with an acceleration of 5 g's peak from 22 Hz to 300 Hz
MTTF: 375,000 hrs
Warranty: 15 month limited warranty

STANDARD RANGE (SR) OPTICS

SYMBOLGY / X-DIM	TYPICAL RANGE*
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)	
Resolution, 2D matrix codes: 0.169 mm (6.7 mil)	

* Performance may be impacted by bar code quality and environmental conditions.

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.
For a complete listing of all supported bar code symbolologies, please visit www.honeywellaidc.com/symbolologies.

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