LSR106
Sealed 2D Bar Code Imager Module for Kiosks

Access' imager integrates into self-service equipment to read bar code symbols on paper documents and displayed on mobile phones and PDAs.

Description

The LSR106 reads barcodes from PDAs, mobile devices and paper documents, and is designed to be integrated into public access kiosks and podiums. Its rugged, water-resistant construction and ease of use makes the LSR106 suitable for kiosks intended for indoor or outdoor use.

The demand for mobile bar coded solutions is growing fast. Sending tickets and vouchers to mobile phones for redemption at kiosks, turnstiles and counters reduces operational costs and provides convenience to consumers on the move. In addition, vouchers and coupons sent to customers' mobile phones can be used to drive traffic to retail outlets.

The LSR106 operates on the presentation of a bar code. The high-performance, 2D omnidirectional bar code imager captures bar codes in less than one second of presentation in any orientation. Ruggedly constructed with no moving parts the devices are built to withstand years of use.

The LSR106 may be configured with data format settings. Serial RS232 and USB (serial or keyboard) interface versions are available. When operated in interactive mode, the LSR106 can be controlled by the host application to give user feedback.

The LSR106 imager reads all popular linear, PDF417 and 2D symbologies.

LSR106 built in to a podium reading a bar code from a mobile phone

LSR106 kiosk and podium bar code reader module

Features

- Fully sealed, water-resistant housing suitable for integration in indoor or outdoor kiosks, podiums and turnstiles
- Reads on face-down presentation of a bar code
- Rugged design and intuitive operation makes the reader suitable for use by the general public
- Reads 2D, PDF417 and linear symbologies
- Can operate as conventional scanner of printed bar codes
- Single cable connection to host PC
- RS232 and USB (serial or keyboard) interface options
- FLASH upgradeable software
- Interactive mode allows host application to control reader functions

Applications

- Integration into public-use kiosks and turnstiles
- Travel and transportation mobile-ticket reading
- Turnstiles at major events
- Voucher redemption at retail outlets
- In-store collection points for web-based orders

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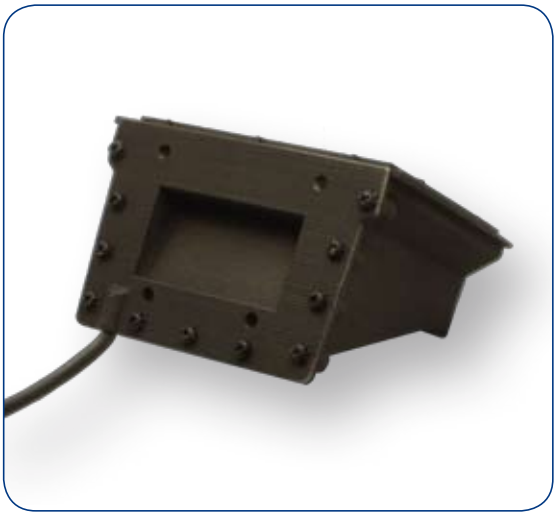
Bar Code Symbologies

For many years, the auto-id industry has standardized on a number of linear bar codes. It is becoming increasingly common for PDF417 2D stacked and 2D symbology codes to be used where more information is required to be read from a bar code and is suitable for printed bar codes, where part of the bar code may be destroyed or marked.

Pixel based 2D bar codes, such as the Aztec symbology, are ideal for downloading to a cell phone display. The Aztec format is formed in a square grid with a 'bulls eye' at the centre to easily locate the code when reading, and the code can be read in any orientation.



Rear view of LSR106 showing sealed housing & single wire connection

Common linear bar codes

These include EAN / UPC, Interleaved 2 of 5, Industrial 2 of 5, IATA 2 of 5, Code 39 and Code 128 formats.

PDF417

A 2D stacked bar code commonly used in transport and ID. The example below contains the Access address.

Aztec

A 2D matrix-style bar code containing up to 3,832 characters. The bar code below contains sample airline boarding details.

LSR106 Mobile Phone 2-D Bar Code Imager

Specifications

Configured to read the following symbologies

Linear: EAN. UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128

2 Dimensional: PDF417, Aztec, DataMatrix and QR codes

Interface options: RS232 and USB (serial and keyboard)

Performance: Will read in full sunlight, and also read 2D bar codes from cell phone displays

MTBF: 85,000 hours

Mechanical/electrical

Dimensions (provisional): 95H x 109W x 73D mm

Weight: 250g excluding cable

Power: 4.5 to 5.0 VDC

Current (Typical): 310mA

Body: Black ABS

Glass: 4mm toughened; sealed enabling the product to be spill-proof in use

Environmental

Temperature:
Operating 0°C to +50°C
Storage 0°C to +60°C

Humidity: TBA

Approvals: FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1

Ingress: IP65

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