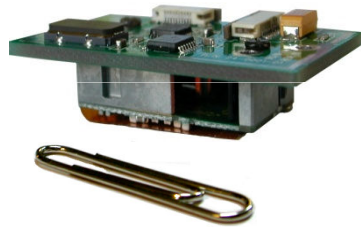


L4100, M4100 Laser Barcode Scan Module



Advanced Features

- Decodes PDF417 and all popular 1D symbologies
- Complete solution with Hardware and Software Development Kits guarantees fastest integration into Mobile Terminals and rapid application development
- Seamless integration is achieved with a customized design for your platform
- Very low power consumption and ultra compact size

Barcode capability has become an essential part of mobile applications. Scan engine integration into mobile terminals is a challenging task for manufacturers due to the high cost of integration and custom protocol requirements.

KoamTac L4100 & M4100 barcode scan modules are designed and optimized for mobile terminals.

KoamTac scan modules provide complete scan subsystems for seamless integration of barcode capability into mobile terminals. The modules include a laser scan engine, control/decode board, software development kit and keyboard emulator.

The bundled keyboard emulator program enables direct importing of scanned data into the active Windows application. Users can define the prefix/suffix, trigger button and scan result tone.

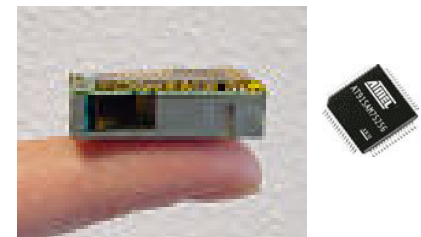
The hardware development kit is also available to support the scan module integration process.

L4100 scan module is designed and optimized for Microsoft® Windows Mobile and CE PDAs

L4100 is the software decoder package for industrial mobile computers based on Microsoft® Windows® Mobile 5.0/6.0 and CE 5.0/6.0

The M4100 hardware based decoder module is designed and optimized for integration with your proprietary OS based mobile terminals.

Built-in FlashROM and USB/Serial interface enables powerful barcode mobile terminal design



L4100, M4100 Specifications

Hardware Specifications

Physical Characteristics (Scan Engine)

Size: 28 x14 x 8mm

Weight: 9g

Electrical Characteristics

Input Voltage: 3.1V~3.6V

Typical Operating Current: 50mA@3.3V

Scanning Performance

Scan Rate: 100 scans/sec (bi-directional)

Scan Angle: 54.0°, 27.0°

Pitch: ±35° Skew: ±50° Roll: ±20°

Environmental Specs

Operating Temperature: -10°C ~ 50°C

Storage Temperature: -30°C ~ 60°C

Humidity: 5% ~ 90% (non condensing)

Interface

RS232 Serial Interface, 57.6Kbps ~

460.8Kbps, 3.0V~3.6V CMOS level

Depth of Field

70~450mm (UPC PCS0.9, resolution 1.0)

50~200mm (UPC PCS0.9, resolution 0.5)

50~190mm (UPC PCS0.9, resolution 0.25)

50~100mm (UPC PCS0.9, resolution 0.15)

60~90mm (UPC PCS0.9, resolution 0.127)

Symbologies

PDF417, EAN, UPC, Code 39, Code 93, Code 128, Codabar, Interleaved 2 of 5, GS1-128, Code 3 of 5.

Software Development Kit

Language

Microsoft® Visual C++, C# and Basic

Target OS

Microsoft® Windows® Mobile 5.0+, CE3.0+

Development Environment

Microsoft® Windows XP, Vista and 7

Keyboard Emulator

Adds prefixes and suffixes

Select trigger button

Select scan result tone (beep, .wav)

Select symbologies

Regulatory Conformance

Laser Safety - IEC Class I, CDRH Class II

EMC - EN55022, EN55024

Package Contents

High performance laser scan engine

Scan engine control board or board design with controller chip (L4100)

Decoder board or decoder board design with decoder chip (M4100)

Software Development Kit

Keyboard Emulator Application Software

Integration manual

Accessories

10pin FPC cable and connector

Plastic scan window with anti-reflective coating

Specifications are subject to change without notice.
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