

Bioscrypt® MV1210™

Embedded Verify (1:1) and Identify (1:200 or 1:500) User Authentication

FEATURES

- User configurable for either Verify (1:1) or Identify (1:N)
- Powerful DSP processor from Texas Instruments® for fast authentication
- Industry's most accurate finger scan algorithm (#1 at FVC 2002 & 2004)
- AuthenTec® TruePrint™ AF-S2 silicon-based technology, works well with scarred, dirty, or worn fingers
- Large touch sensor enhances usability and minimizes false rejections
- Capable of storing approximately 4000 Verify (1:1) templates
- RoHS compliant
- Industry standard RS-232 I/O accelerates integration
- Same form factor and API as Bioscrypt VeriSeries readers
- Firmware updates as needed to ensure compliance with key industry initiatives
- Smaller than a business card yet provides an external sensor and finger mask, making integration with a wide array of devices simple and straightforward.

A full-featured, stand-alone finger authentication module that is optimized for embedded system applications where user convenience is the first priority

Part of an established line of OEM modules, the MV1210 is highly configurable and easily integrated



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TECHNICAL INFORMATION

DIMENSIONS:

OEM fingermask: 39 mm x 39 mm (1.54 in x 1.54 in)
Vendor portal: 35 mm x 35 mm (1.38 in x 1.38 in)
Main processor board: 63 x 43 mm x 10 mm (2.48 in x 1.69 in x 0.39 in)

COMMUNICATIONS:

RS-232 port
General Purpose Input (GPI) port
General Purpose Output (GPO) port

VERIFICATION MODE: (1:1)

Enrollment time: ~ 1 second
Verification time: ~ 1 second
False Acceptance Rate (FAR): Adjustable
False Rejection Rate (FRR): Adjustable
Equal Error Rate (EER) (FAR=FRR): 0.1%
Template size: ~ 350 bytes
Number of templates: ~ 4000

IDENTIFICATION MODE: (1:N)

Identification time: ~ 2 seconds
FAR: 0.2%
FRR: 1.0%
Template size: ~ 2500 bytes
Number of templates: Optimized for 300, maximum capacity is 500*

POWER REQUIREMENTS:

Idle: 200 mA @ 5 VDC +/- 10%
Peak: 300 mA @ 5 VDC +/- 10%
10-pin single-header cable, with Molex connector (all communication and power from one cable)

SENSOR:

AuthenTec® AF-S2: 13 mm x 13 mm (0.51 in x 0.51 in)

SOFTWARE:

Field upgradeable through downloadable firmware, provided free from Bioscrypt web page.

* Please contact Bioscrypt for more information.

EVALUATION AND DEVELOPMENT TOOLS

EVALUATION KITS:

Our evaluation kits are designed to allow you to get an OEM module up and running quickly. The evaluation kit includes:

- OEM module
- Serial cable to connect to your PC's RS-232 port
- Power supply
- CD with demonstration application.

DEVELOPMENT KITS:

These kits include everything you need to begin integrating a Bioscrypt OEM module into your product. The development kit includes:

- OEM module
- Serial cable to connect to your PC's RS-232 port
- Pigtail connector (I/O connector on one end, bare wire on the other)
- Power supply
- CD with BIO-SDK, all OEM documentation, and demonstration application.

BIO-SDK DETAILS:

To simplify your integration of the OEM modules, Bioscrypt offers the BIO-SDK, which includes a Windows-based DLL for custom development. The BIO-SDK includes support for interfacing with all Bioscrypt OEM modules, as well as the entire VeriSeries line of products, making integration simple, quick, and efficient.

For OEM customers looking to control the OEM modules using a micro-controller or other serial interface, the BIO-SDK also includes detailed documentation that describes the low-level command set.

- Simple APIs support both low-level embedded applications, as well as high-level Windows-based applications (supported languages include C/C++ and Visual Basic)
- Full-featured API includes authentication as well as template transfer and reader configuration commands
- Simple-to-use serial communication commands
- Sample code with demo application
- Small, robust packet structure (from 192 bits) is ideal for micro-controllers, etc.



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