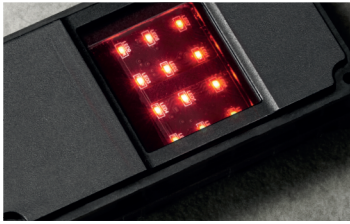# BM-Slim3S

Ultra-slim FAP30 Standalone Authentication Module

BM-Slim3S is a FBI PIV and Mobile ID FAP30 Certified* fingerprint module that provides a number of industry-leading features under its sleek design. Featuring range-leading powerful 1.0Ghz CPU, BM-Slim3S provides high-speed extraction and matching of fingerprints on device. BM-Slim3S also supports true plug-n-play by featuring HID(human interface device) protocol and Suprema's proprietary Multi-dynamic Range(MDR) technology. BM-Slim3S provides new and advanced Live Finger Detection(LFD)technology by applying a machine learning method based AI(Artificial Intelligence) as an World-class Trained Inspector which can be upgradeable.   (*in preparation)

BM-Slim3S

Ultra-slim FAP30 Standalone
Authentication Module

FEATURES

· True plug-n-play operation
 - HID(human interface device) protocol

· Standalone operation
 - 1.0GHz MIPS-base Xburst Core CPU
 - On-device fingerprint extraction and matching
 - O/S independent fingerprint scanner

· Enhanced Security
 - On-device template encryption
 - On-device template extraction

· World's slimmest FAP 30 optical sensor

FBI

· FBI PIV/FIPS201 and FBI Mobile ID FAP 30 certificates*
· Image compression standard: WSQ

Multi Dynamic Range

· Capturing high-quality fingerprint images even when the finger is dry & wet.
· Operates under direct sunlight up to 100,000 LUX

· Live Fingerprint Detection (LFD) Technology
 - Distinguishes fake fingerprints made from various materials including clay, rubber, silicon, glue, paper, film and more

· Automated power saving by smart sleep mode

SPECIFICATIONS

Sensor	Image Quality Standards	FBI PIV / FBI Mobile ID FAP30 compliant
	Sensor Type	Optical
	Resolution	500 ppi
	Gray Scale	256 level
	Platen Size	21.5 x 26.5 (W x L mm)
	Sensing Area	20.32 x 25.4 (W x H mm)
	Image Size	400 x 500 (W x H pixels)
H/W	Interface	USB 1.1 or Higher
	Operating Temperature	-10~50℃
	Operating humidity	0 ~ 90% RH
	Ingress Protection	IP65 (Sensor Surface)
	Dimensions (W x L x H mm)	67.5 x 36 x 15
	Weight	48.6g
S/W	Operating System	OS/Platform Independent, Stand-Alone Operation
	Image Fomat	RAW, BMP, WSQ, ISO 19794-4
	Template Type	Suprema, ISO19794-2, ANSI-378
	LFD	O
Certification	CE*, FCC*, KC*, CB*, IEC62471*, WEEE*, WHQL*	

(*in preparation)

suprema
BIOMETRICS & SECURITY