

BIOSENSE™ AT80B

8" ANDROID BIOMETRIC TABLET

AMREL®
Pioneering Customized Rugged Solutions

Lightweight, Modular Rugged Biometric Tablet for Mobile ID



MIL-STD 810G
Certified



IP-RATING 67



Lightweight



FBI-Certified

Rugged Biometrics Just Got Mobile

Built for public safety officers, military personnel, border patrol agents, stadium workers, and other field operators, BioSense AT80B quickly captures single flat prints in the harshest environments. Equipped with an FBI-certified FAP20/FAP30 fingerprint scanner, operators can enroll and identify individuals anytime, anywhere.

True Toughness

The BioSense AT80B earned its IP-67 & MIL-STD 810G certifications the hard way. We've dunked, baked, and froze this durable Android tablet and it still works. Inspired by lightweight, durable aircraft design, the aluminum housing makes this the toughest biometric solution around.

Small, Thin, and Easy-to-Read

BioSense AT80B optically bonded, 8" display has a small footprint. Just under 2 pounds, and barely an inch thick, this is a true mobile ID solution.

Built-in Versatility

BioSense AT80B's unique channel design lets you easily integrate a wide variety of modules, including fingerprints, MSR, 2D barcode, smart card, or your very own application. Put your proprietary application on BioSense AT80B's proven platform. Let us build you what you want.

BioSense™ AT80B TECHNICAL SPECIFICATIONS

Item	Standard
Processor	Texas Instrument OMAP 4470 Dual-core 1.5GHz
Memory	1GB LPDDR RAM
Storage (Built-In)	8 GB
Micro SD	Supports SDHC up to 32GB
Display	8-inch LCD (1024x600), 450 nits Optically bonded
Touch screen	10-point Capacitive
Front Camera	5MP Camera Module
Rear Camera	5MP Camera Module (Optional: Rear camera flash)
OS	Android 4.3
Wireless	802.11 b/g/n
GPS	Yes
4G	Optional 4G LTE
I/O Ports	Micro SD card x 1, Power jack x 1, USB2.0 Host/OTG x 1, Speakers x 2, Headphone x 1, 3.5mm headphone jack x 1 Internal: PCIe/USB x 1, SIM holder x 1 Options: Serial (RS232/422/485) x 1, Ethernet 10/100 (RJ45) x 1, USB2.0 Host x 2

Item	Standard
Power Input	12V power jack
Vibrator motor	Yes
G-Sensor	Yes
Light Sensor	Yes
Accelerometer	Yes
E-Compass	Yes
Battery	3.7V/4200 mAh Li-Polymer Battery
Size (with bumpers)	6.87" L x 12.3" W x 0.95" H 17.45 x 31.25 x 2.41 cm
Weight	1.94 lbs. (0.88kg)
Available Color	Moon Gray, Sky Blue, Pirates Gold, Marigold, Sunset, Titanium, Crimson Red, Sage Green, Forest Green, Steel Blue
FBI PIV & Mobile ID Certified Fingerprint Sensor	<ul style="list-style-type: none"> FBI PIV & Mobile ID FAP20 Fingerprint Sensor FBI PIV & Mobile ID FAP30 Fingerprint Sensor <i>(See below specifications)</i>

ENVIRONMENTAL RATINGS	
MIL-STD 810G Certified	
Altitude	Method 500.5, Procedure I & II
High Temperature	Method 501.5, Procedure I & II, Operating: +60 °C
Low Temperature	Method 502.5, Procedure I & II, Operating: -20 °C
Vibration, Category 4	514.6C-1, Category 4
Vibration, Category 20	514.6C-1, Category 20
Rain	Method 506.5, Procedure II
Humidity	Method 507.5
Operational Shock	Method 516.6, Procedure I
Transit Drop	Method 516.6, Procedure IV
Crash Hazard Impulse Shock	Method 516.6, Procedure V
Bench Handling	Method 516.6, Procedure VI
IEC IP-67 Certified	Dust-protected; water immersion up to 3ft

FINGERPRINT SCANNER SPECIFICATION		
	FBI PIV & Mobile ID FAP20 Fingerprint Scanner	FBI PIV & Mobile ID FAP30 Fingerprint Scanner
Technology	Optical	
Resolution	500 PPI	
Platen Area	0.65" (W) x 0.83 (L) 16.5 (W) x 21.0 (L) mm	0.65" (W) x 0.83 (L) 21.5 (W) x 26.5 (L) mm
Sensing Area	0.65" (W) x 0.83 (H) 15.24 (W) x 20.32 (H) mm	0.65" (W) x 0.83 (L) 20.32 (W) x 25.4 (H) mm
Grayscale	256 level	
Image Size	300 (W) x 400 (H) pixels	400 (W) x 500 (H) pixels
Interface	USB2.0 High Speed	
Image Supported Formats	RAW, BMP, WSQ, ISO 19794-4	
OS Support	Windows – XP, Vista, 7, 8, 8.1, 10 32/64-bit Linux – Ubuntu, Debian, Fedora, OpenSUSE, Cent OS 32/64-bit Android – 4.1 (Jelly Bean) and above	Windows – 7 or higher (32/64-bit) Linux – Linux Kernel 3.x or higher Android – 4.1 (Jelly Bean) or higher (USB host)
Certification	CE, FCC, KC, UL/CB, IEC 62471, WEEE, WHQL	
Environment	Operating Temperature: -10°C ~ +50°C Operating Humidity: 10~90% Relative Humidity	Operating Temperature: -10°C ~ +50°C Operating Humidity: 10~90% Relative Humidity IP-65 (Sensor surface)

** Specifications subject to change without notice **