BIOSENSE™ PA5B (GEN 2)
10" ANDROID BIOMETRIC TABLET

AMREL®
Pioneering Customized Rugged Solutions

Octa-core, Android 9 Mobile Biometric Tablet

Powerful 8-Core Mobile Biometric Tablet to Enroll & Capture Data

The 2nd generation of BioSense PA5B (Gen2) lets you enroll and capture biometric data wherever you are, whenever you want it. The newly overhauled model packs a punch with the best-performing SnapDragon 660 octa-core SoC, 3GB LPDDR4 RAM, 32GB eMMC storage, and runs on Android 9 (Pie).

Ideal for public safety officers, military personnel, border patrol agents, and other field operators, this MIL-STD 810G and IP-65 biometric tablet will operate even in the harshest conditions.

Android 9 (GMS-Certified)

System Integrators, developers, or other VARs whose app rely on Google Mobile Services (GMS) can now leverage Android 9 to achieve seamless flow and productivity. Not all applications require GMS to run, but is a nice feature for those apps that are GMS-dependent.

Ultra-Fast Connectivity

The updated core hardware introduces newer technology with speedy connectivity options to transmit data captured in the field. Precise tracking, quick processing, wide coverage, and fast data transfer are supported by 802.11ac WiFi (supports 2x2 MU-MIMO; max 867 Mbps), Bluetooth 5, GNSS, and 4G LTE options.

Multiple Modular Options

Law enforcement professionals can select fingerprint scanners that are FBI-certified for FAP20 or FAP30 (single finger). Also available are modules with capabilities for MSR, NFC, smart card (CAC), 2D barcode, and more.

Operating System	Android 9.0 Google Mobile Services (GMS) certified	**Sensor**	Gyroscope, G-sensor, E-compass, Light sensor
CPU	Qualcomm® Snapdragon™ 660 Octa-Core, 1.9GHz (up to 2.2GHz)	**Power Adapter**	AC 100V~240V, 50~60Hz Input; 19VDC@3.42A, 65W

Memory	3GB LPDDR4 RAM	**Battery**	• Standard : 4500mAh, 10.8V, hot swappable battery
			          Battery operation* : 13 hours
			• Extended (option): 9000mAh, 10.8V, hot swappable battery
			          Battery operation* : 26 hours
			
			The listed battery life is tested with wireless on. Actual performance will vary by configuration, application, and operating conditions.

Storage	32GB eMMC	**I/O Interface**	• USB 3.1 Type C x 1 (DP supported), USB 2.0 Type A x 2 • Gigabit ethernet (RJ-45) x 1 • RS-232 x 1 (trade-off option: USB 2.0 Type A) • Micro SD (SDXC/SDHC supported) x 1, Micro SIM x 2 • Audio jack (headphone/microphone combo) x 1 • RF pass-through connector for WLAN, GNSS, WWAN x 2 (Optional) • Docking connector (12-pin) x 1; DC-in x 1
Display	• 10.1"WUXGA (1920 x 1200), 1000 nits • Sunlight readable display; supports night and stealth mode • 10-point capacitive touch supports glove touch, water rejection, palm rejection, 2mm hard tip stylus • Gorilla Glass	**Dimensions and Weight**	14" x 7.7" x 0.9" (35.56 x 19.5 x 2.3 cm) 3.09 lbs. (1.4 kg)
Graphic	Qualcomm® Adreno™ 512	**LED Indicator**	• Power on/off • Wi-Fi on/off • Fn on/off • Battery full /charging/low
Control Button	• Programmable buttons x 3 • Barcode trigger x 1 • Power x 1, volume x 2, home button x 1	**Rugged Features**	MIL-STD 810G IP-65 Certified 5-foot drop
Communication	• Wi-Fi 802.11 ac 2x2 MU-MIMO • Bluetooth V5.0 (Class 1) • Optional 4G LTE • GNSS (GPS/GLONASS/BeiDou)	**Environment**	• Operating temperature: -4° F to 140° F (-20° C to 60°C) • Storage temperature: -22° F to 158° F (-30° C to 70°C) • Humidity: 95%, non-condensing • Altitude, Thermal Shock, Shock, Transit Drop
Camera	• 8MP front camera • 13MP rear camera with LED flash	**Security**	ARM® TrustZone®
Data Collection	• FAP20 FBI PIV & Mobile ID FAP20 Single Fingerprint scanner • FAP45 FBI-certified fingerprint scanner (single/dual, flat or rolled prints) • FAP45 fingerprint scanner + MSR • NFC + Smart card reader (CAC) (Snap-on option) • 2D barcode reader (built-in option)	**Accessories**	AVAILABLE: • Stylus Pen • Hand strap • Shoulder strap • Handle • Power adapter OPTIONAL: • Vehicle Dock • Desktop Dock • Rugged Keyboard • VESA Mount Bracket • 4-bay Battery Charger • Long Life Battery Pack • Car Adapter

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 **

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