

BIOPTIX™ PM5B

10" WINDOWS® BIOMETRIC TABLET

AMREL®
Pioneering Customized Rugged Solutions

Perfect Balance of Price vs. Performance

Built for the professional on the move, this 10.1" mobile biometric1 solution combines ruggedness, visibility, performance, economy, and energy thriftiness



Choices, Not Problems

Law enforcement professionals, border security personnel, passport control officers, and other field operatives appreciate its multiple scanning options as well as numerous I/O selections.

Visibility in All Conditions

Boasting a super bright 1000-nit rating, BIOPTIX PM5B's high-resolution, optically-bonded WUXGA (1920x1200) display is sunlight readable even in the most extreme conditions. Its 5-point capacitive touchscreen supports glove touch, water rejection, and palm rejection.

Identification and Enrollment in the Field

The high-performance scanner FBI-certified FAP20/45 fingerprint scanners capture quality images in detail. Additional options available: NFC, MSR, 2D barcode, and 8MP camera.

Energy Efficiency Balanced with Performance

Intel® ATOM™ Processor is optimized for small computing devices, enabling long battery life without sacrificing processing speed.

Day-long Battery Life

Choose the extended battery option for up to 12 hours of usage.

Tough as Your Job

Barely an inch thick, the BIOPTIX PM5B doesn't skimp on ruggedness. Gorilla Glass and MIL-STD 810G & IP-65 certifications mean this tough tablet will work wherever you go and whenever you need it.

Stay Connected

WiFi, Bluetooth, 4G LTE, GNSS, and other communication options enable precise positioning, broader coverage, and stable data transfer. For in-vehicle usage, switchable dual pass-through connector supports uninterrupted seamless connections.

Enhanced Security

Customized one button push function quickly erases SSD data during emergencies by leveraging Phoenix's SecureWipe. Trusted Platform Module (TPM 1.2) provides additional security.

SPECIFICATIONS - BIOPTIX PM5B 10.1" RUGGED WINDOWS BIOMETRIC TABLET

Operating System	Windows 10 IoT Enterprise	Sensor	Gyroscope, G-sensor, E-compass, light sensor		
CPU	Intel® ATOM™ E3827 (BayTrail) Processor 1.75 GHz	Power Adapter	AC 100V~240V, 50~60Hz Input; 19VDC@3.42A, 65W		
Memory	<ul style="list-style-type: none"> • 4GB DDR3L • Optional 8GB DDR3L 	Battery	<ul style="list-style-type: none"> • Standard : 4500mAh, 10.8V, hot swappable battery Battery operation* : 6 hours • Extended (option): 9000mAh, 10.8V, hot swappable battery (option) Battery operation* : 12 hours <small>*The listed battery life is based on Mobile Mark 2014* media mode testing.</small>		
Storage	<ul style="list-style-type: none"> • 128GB mSATA SSD • Optional 256GB mSATA SSD 	I/O Interface	<ul style="list-style-type: none"> • USB 3.0 Type A x 1, USB 2.0 Type A x 1 • Gigabit ethernet (RJ-45) x 1 • RS-232 x 1 (trade-off option: USB 2.0 Type A x 1) • Micro SD x 1, Micro SIM x 1, Micro HDMI x 1 • Audio jack (headphone/microphone combo) x 1 • RF pass-through connector x 2 for WLAN, GNSS, WWAN • Docking connector (12-pin) x 1 		
Display	<ul style="list-style-type: none"> • 10.1" WUXGA (1920 x 1200), 1000 nits sunlight readable • 5-point capacitive touch supports glove touch, water rejection, palm rejection, 2mm hard tip stylus • Gorilla Glass 3 • Digitizer (option) 	Dimensions and Weight	7.7" L x 14.25" x 0.9" (19.5 x 36.2 x 2.3 cm) 3.23 lbs (1.46 kg)		
Graphic	Intel HD Graphics	LED Indicator	<ul style="list-style-type: none"> • Power, Wi-Fi, Fn on/off • Battery full /charging/low 		
Control Button	<ul style="list-style-type: none"> • Programmable button x 3 • Barcode trigger x 1 • Power, volume, home button 	Rugged Features	MIL-STD 810G & IP-65 Certified Vibration, shock, and 5-foot drop		
Communication	<ul style="list-style-type: none"> • Wi-Fi 802.11 a/b/g/n/ac • Bluetooth V4.0+EDR • GNSS(GPS/Glonass/BeiDou) • Optional 4G LTE 	Environment	<ul style="list-style-type: none"> • Operating temperature -4° F to 122° F (-20° C to 50° C) • Storage temperature -22° F to 158° F (-30° C to 70° C) • Humidity: 95%, non-condensing 		
Camera	<ul style="list-style-type: none"> • 2MP front camera • 5MP rear camera with auto focus and LED flash 	Security	TPM 1.2 Optional Janus USB Ignition Key, Phoenix SecureWipe		
Data Collection	<ul style="list-style-type: none"> • FBI-certified FAP 45 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	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> INCLUDED: <ul style="list-style-type: none"> • Stylus Pen • Hand strap • Shoulder strap • Handle • Power adapter </td> <td style="width: 50%; border: none;"> OPTIONAL: <ul style="list-style-type: none"> • Desktop Dock • Vehicle Dock • VESA Mount Bracket • 2-bay Battery Charger • Long Life Battery Pack </td> </tr> </table>	INCLUDED: <ul style="list-style-type: none"> • Stylus Pen • Hand strap • Shoulder strap • Handle • Power adapter 	OPTIONAL: <ul style="list-style-type: none"> • Desktop Dock • Vehicle Dock • VESA Mount Bracket • 2-bay Battery Charger • Long Life Battery Pack
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FBI-CERTIFIED FINGERPRINT SENSORS

SPECIFICATION	FBI PIV & Mobile ID FAP20 Fingerprint Sensor	FBI PIV & Mobile ID FAP45 Fingerprint Sensor
Technology	Optical	Light Emitting Sensor (LES)
Resolution	500 PPI	500 PPI
Sensing Area	0.6" (W) x 0.8" (H) 15.24 (W) x 20.32 (H) mm	1.6" (W) x 1.5" (H)
Platen Area	0.65" (W) x 0.83 (L) 16.5 (W) x 21.0 (L) mm	3.38" x 2.12" 85.85 x 53.97 mm
Grayscale	256 level	256 grayscale dynamic range
Image Size	300 (W) x 400 (H) pixels	800 (W) x 750 (H) pixels
I/O Port	USB2.0 High Speed	USB 2.0 (Pogo Pin, Molex 51146-0600, Molex 51021-0600)
Image Supported Formats	RAW, BMP, WSQ, ISO 19794-4	RAW, JPEG2000, BMP, PNG, WSQ
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 - Server, 7, 8.x, Mobile 6.5 Linux, Android 4.0 (or higher)
Certification	CE, FCC, KC, UL/CB, IEC 62471, WEEE, WHQL	FCC Part 15 (per ANSI C62.4:2003) Class A, CSA ICES-003 Class A, CE Emissions: EN 55022:2006 Class A, CE Immunity EN 55024:1998/A1:2001/A2:2003, IEC 61000-4-2
Environment	Operating Temperature: -10°C ~ +50°C Operating Humidity: 10~90% Relative Humidity	Operating temperature: -10°C ~ +55°C / 14°F ~ 131°F Air & Contact Discharge, Humidity, Surface Durability, Vibration Test, Surface Resistance, Hazardous Material IP-65 Sealed bezel