

BIOPTIX™ PX5

10" WINDOWS® BIOMETRIC TABLET

AMREL®
Pioneering Customized Rugged Solutions

Powerful 10" Mobile Biometric Tablet with Single Fingerprint Scanner

A mobile biometric solution designed for law enforcement professionals, border security personnel, passport control officers, and other field operatives.



Fast, Single Fingerprint Captures On-Demand

Identify and enroll in the field with high-performance FBI-certified FAP20 or 30 single fingerprint scanners. Take this mobile device with you anywhere. Other sensor options include NFC+smart card combo reader (CAC), 2MP/8MP front/rear camera, and integrated 2D barcode reader with OCR capabilities. Easy-to-customize Snap-on connector gives you even more choices.

Energy Efficiency Balanced with Powerful Performance

13th generation Intel® Core™ i5-1335UE 10-core 1.3GHz (up to 4.5GHz turbo) processor and redesigned power management enables long battery life without sacrificing processing speed. Extended battery option allows for up to 23 hours of operation. Hot swappable batteries also support fast charging.

Visibility in All Conditions

With a 1000-nit rating, BIOPTIX PX5's high-resolution, optically bonded WUXGA (1920×1200) full HD display is sunlight readable even in the brightest light. Hyper dimming technology enables adaptation to darker ambient-light conditions. Ten-point capacitive touchscreen supports glove touch, water rejection, and palm rejection.

Only 1" Thick & Fully Rugged

The BIOPTIX PX5 is built tough. Gorilla Glass and MIL-STD 810H, 461G, & IP-65 certifications mean this durable tablet will work wherever you go and whenever you need it.

Stay Connected

WiFi 6E, Bluetooth V5.3, 4G LTE or 5G, GNSS, and other communication options enable precise positioning, broader coverage, and stable data transfer.

Enhanced Security

Customized one-button push function quickly erases SSD data during emergencies by leveraging Phoenix's SecureWipe. Janus USB ignition key authenticates users by combining BIOS cloud services and physical token. Trusted Platform Module (TPM 2.0) provides additional security.

SPECIFICATIONS - BIOPTIX PX5 10.1" RUGGED WINDOWS BIOMETRIC TABLET

Operating System	Windows 11 IoT Enterprise (64-bit)	Sensor	G-sensor, light sensor		
Processor	<ul style="list-style-type: none"> • Intel® Core™ i5-1335UE, 10-core 1.3GHz (up to 4.5GHz turbo) processor (RaptorLake 13th generation) • Optional: Core i7-1365UE or U300E 	Power	AC 100V~240V, 50~60Hz Input, 65W ¹		
Memory	<ul style="list-style-type: none"> • Standard 8GB DDR5 SDRAM • Optional 16GB/32GB DDR5 SDRAM (by request only; MOQ may apply) 	Battery	<ul style="list-style-type: none"> • Standard: 4500mAh, 10.8V, hot swappable, (operates ~12 hrs)² • Extended option: 9000mAh, 10.8V, hot swappable, (operates ~23 hrs)² • Fast charging supported 		
Storage	<ul style="list-style-type: none"> • Standard 128GB M.2 SSD • Optional 256GB, 512GB, 1TB M.2 SSD <p style="font-size: small; margin-top: 5px;">* Larger capacity drives available upon request</p>	I/O Interface	<ul style="list-style-type: none"> • Thunderbolt 4 Type C x 1, USB 3.1 Type A x 1, RS-232 x 1 (optional USB 2.0 or Micro SD x 1 trade-off), Gigabit Ethernet (RJ-45) x 1, DC-in x 1 • Audio jack (headphone/mic combo) x 1, Speaker & mic • Nano SIM x 1 • Docking connector (12-pin) x 1 • Optional: RF pass-through connector (WLAN, GNSS, WWAN) x 2 		
Display	<ul style="list-style-type: none"> • 10.1" WUXGA (1920 x 1200) LCD, 1000 nits sunlight readable with hyperdimming option • 10-point capacitive multi-touch supports glove touch, water rejection, palm rejection, 2mm hard tip stylus • Gorilla Glass • Digitizer with IP-54 pen (optional) 	Dimensions & Weight	7.7" L x 14.25" x 0.9" (19.5 x 36.2 x 2.3 cm) 3.23 lbs (1.45 kg) ³		
Graphic	Intel® Iris® Xe	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 810H, MIL-STD 461G, & IP-65 Certified Vibration, shock, and 5-feet drop		
Communication	<ul style="list-style-type: none"> • Wi-Fi 6E 802.11ax • Bluetooth V5.3 • GNSS (GPS/Glonass/BeiDou) • Optional 4G LTE/5G 	Environmental	<ul style="list-style-type: none"> • 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 		
Camera	<ul style="list-style-type: none"> • 2MP front camera • 8MP auto focus rear camera with LED flash 	Security	TPM 2.0		
Data Collection	<ul style="list-style-type: none"> • FBI PIV & Mobile ID FAP20 Single Fingerprint scanner • FBI PIV & Mobile ID FAP30 Single Fingerprint scanner • MRZ reader • NFC + Smart card reader (CAC) (Snap-on option) • 2D barcode reader (built-in option) (OCR option available) 	Accessories	INCLUDED: <ul style="list-style-type: none"> • AC Power adapter • Stylus Pen 	OPTIONAL: <ul style="list-style-type: none"> • Hand strap • Shoulder strap • Handle 	ACCESSORIES: <ul style="list-style-type: none"> • Desktop Dock • Vehicle Dock • VESA Mount Bracket • 2-bay Battery Charger • Long Life Battery Pack

¹ The default is for 65W AC adapter, 65W Type-C is optional.

² Actual battery life varies by configuration, application, power management, and operating conditions.

³ Actual weight varies by configurations and optional accessories.ww

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 **