

# BIOPTIX™ PX5

10" WINDOWS® BIOMETRIC TABLET

**AMREL®**  
Pioneering Customized Rugged Solutions

## Powerful 10" Windows Biometric Tablet with Efficient Power Management

BIOPTIX PX5 10.1" fully-rugged tablet is a mobile biometric solution designed for law enforcement professionals, border security personnel, passport control officers, and other field operatives.



### Energy Efficiency Balanced with Powerful Performance

Seventh generation Intel®Core™ i5-7300U vPro™ 2.6GHz 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. For a more economical Core i5 CPU option, users can choose the fifth generation Intel®Core™ i5-5350U vPro™ 1.8GHz processor.

### Multiple Functions On-the-Go

Identify and enroll in the field with high-performance FBI-certified FAP20/45 fingerprint scanners. Other sensor options include smart card reader (CAC), 3D camera, and integrated 2D barcode reader with OCR capabilities. Easy-to-customize Snap-on connector gives you even more choices.

### Visibility in All Conditions

With a 1000-nit rating, BIOPTIX PX5's high-resolution, optically bonded WUXGA (1920x1200) 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 810G & IP-65 certifications mean this durable 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.

### 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

<b>Operating System</b>	<ul style="list-style-type: none"> <li>Windows 10 IoT Enterprise</li> <li>Windows 10 Professional</li> </ul>	<b>Sensor</b>	Gyroscope, G-sensor, E-compass, light sensor
<b>Processor</b>	<ul style="list-style-type: none"> <li><b>BIOPTIX PX5C:</b> Intel® Core™ i5-7300U vPro™ 2.6GHz processor (KabyLake 7th generation)</li> <li><b>BIOPTIX PX5B (Option):</b> Intel® Core™ i5-5350U vPro™ 1.8GHz processor (Broadwell 5th generation)</li> </ul>	<b>Power</b>	AC 100V~240V, 50~60Hz Input; 19VDC@3.42A, 65W
<b>Memory</b>	<p><b>BIOPTIX PX5C (KabyLake):</b></p> <ul style="list-style-type: none"> <li>8GB DDR4 SDRAM</li> <li>Optional 16GB DDR4 SDRAM (by request only; MOQ may apply)</li> </ul> <p><b>BIOPTIX PX5B (Broadwell):</b></p> <ul style="list-style-type: none"> <li>8GB DDR3L RAM</li> </ul>	<b>Battery</b>	<p><b>BIOPTIX PX5C (KabyLake):</b></p> <ul style="list-style-type: none"> <li>Standard: 4500mAh, 10.8V, hot swappable battery, operates 12 hours*</li> <li>Extended option: 9000mAh, 10.8V, hot swappable battery, operates 23 hours*</li> </ul> <p><b>BIOPTIX PX5B (Broadwell):</b></p> <ul style="list-style-type: none"> <li>Standard: 4500mAh, 10.8V, hot swappable battery, operates 6 hours*</li> <li>Extended option: 9000mAh, 10.8V, hot swappable battery, operates 11 hours*</li> </ul> <p><i>*The listed battery life is based on Mobile Mark 2014* media mode testing.</i></p>
<b>Storage</b>	<p><b>BIOPTIX PX5C (KabyLake):</b></p> <ul style="list-style-type: none"> <li>128GB M.2 SSD (optional 256GB, 512GB)</li> </ul> <p><b>BIOPTIX PX5B (Broadwell):</b></p> <ul style="list-style-type: none"> <li>128GB mSATA SSD (optional 256GB)</li> </ul> <p><i>*Larger capacity drives available upon request</i></p>	<b>I/O Interface</b>	<p><b>BIOPTIX PX5C (KabyLake):</b></p> <ul style="list-style-type: none"> <li>USB 3.1 Type C<sup>1</sup> 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</li> <li>Audio jack (headphone/mic combo) x 1, Speaker &amp; mic</li> <li>Micro SIM x 1, Micro HDMI x 1</li> <li>RF pass-through connector (WLAN, GNSS, WWAN) x 2</li> <li>Docking connector (12-pin) x 1</li> </ul> <p><b>BIOPTIX PX5B (Broadwell):</b></p> <ul style="list-style-type: none"> <li>USB 3.0 Type A x 1, Gigabit Ethernet (RJ-45) x 1, RS-232 (optional for USB 2.0 type A)</li> <li>Audio jack (headphone/mic combo) x 1, Speaker &amp; mic</li> <li>Micro SD x 1, Micro SIM x 1, Micro HDMI x 1</li> <li>RF pass-through connector (WLAN, GNSS, WWAN) x 2</li> <li>Docking connector (12-pin) x 1</li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>10.1" WUXGA (1920 x 1200) LCD, 1000 nits sunlight readable with hyperdimming option</li> <li>10-point capacitive multi-touch supports glove touch, water rejection, palm rejection, 2mm hard tip stylus</li> <li>Gorilla Glass 4</li> <li>Digitizer with IP-54 pen (optional)</li> </ul>	<b>Dimensions &amp; Weight</b>	11" x 7.7" x 0.9" (28 x 19.5 x 2.3 cm) 3.0 lbs (1.36 kg) <sup>3</sup>
<b>Graphic</b>	<ul style="list-style-type: none"> <li><b>BIOPTIX PX5C:</b> Intel® HD Graphics 620</li> <li><b>BIOPTIX PX5B:</b> Intel® HD Graphics 6000</li> </ul>	<b>LED Indicator</b>	<ul style="list-style-type: none"> <li>Power, Wi-Fi, Fn on/off</li> <li>Battery full /charging/low</li> </ul>
<b>Control Button</b>	<ul style="list-style-type: none"> <li>Programmable button x 3</li> <li>Barcode trigger x 1</li> <li>Power, volume, home button</li> </ul>	<b>Rugged Features</b>	MIL-STD 810G & IP-65 Certified Vibration, shock, and 5-foot drop
<b>Communication</b>	<ul style="list-style-type: none"> <li>Wi-Fi 802.11 a/b/g/n/ac</li> <li>Bluetooth V4.2</li> <li>GNSS (GPS/Glonass/BeiDou)</li> <li>Optional 4G LTE</li> </ul>	<b>Environmental</b>	<ul style="list-style-type: none"> <li>Operating temperature: -4° F to 140° F (-20° C to 60° C)</li> <li>Storage temperature: -22° F to 158° F (-30° C to 70° C)</li> <li>Humidity: 95%, non-condensing</li> </ul>
<b>Camera</b>	<ul style="list-style-type: none"> <li>2MP front camera</li> <li>8MP auto focus rear camera with LED flash</li> </ul>	<b>Security</b>	TPM 2.0 Optional Janus USB Ignition Key, Phoenix SecureWipe
<b>Data Collection</b>	<ul style="list-style-type: none"> <li>FAP20 FBI PIV &amp; Mobile ID FAP20 Single Fingerprint scanner</li> <li>FAP45 FBI-certified fingerprint scanner (single/dual, flat or rolled prints)</li> <li>FAP45 fingerprint scanner + MSR</li> <li>NFC + Smart card reader (CAC) (Snap-on option)</li> <li>2D barcode reader (built-in option)</li> </ul>	<b>Accessories</b>	<p><b>INCLUDED:</b></p> <ul style="list-style-type: none"> <li>Stylus Pen</li> <li>Hand strap</li> <li>Shoulder strap</li> <li>Handle</li> <li>Power adapter</li> </ul> <p><b>OPTIONAL:</b></p> <ul style="list-style-type: none"> <li>Desktop Dock</li> <li>Vehicle Dock</li> <li>VESA Mount Bracket</li> <li>2-bay Battery Charger</li> <li>Long Life Battery Pack</li> </ul>

<sup>1</sup> USB Type C Gen 1, does not support USD PD or Alternate Mode

<sup>2</sup> Listed battery life is based on MobileMark 2014\* productivity mode testing with wireless on. Battery life rating is for comparison purposes only. Actual battery life varies by configuration, application, power management, and operating conditions.

<sup>3</sup> Actual weight varies by configurations and optional accessories.

## FBI-CERTIFIED FINGERPRINT SENSORS

SPECIFICATION	FBI PIV & Mobile ID FAP20 Fingerprint Sensor	FBI PIV & Mobile ID FAP45 Fingerprint Sensor
<b>Technology</b>	Optical	Light Emitting Sensor (LES)
<b>Resolution</b>	500 PPI	500 PPI
<b>Sensing Area</b>	0.6" (W) x 0.8" (H)   15.24 (W) x 20.32 (H) mm	1.6" (W) x 1.5" (H)
<b>Platen Area</b>	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
<b>Grayscale</b>	256 level	256 grayscale dynamic range
<b>Image Size</b>	300 (W) x 400 (H) pixels	800 (W) x 750 (H) pixels
<b>I/O Port</b>	USB2.0 High Speed	USB 2.0 (Pogo Pin, Molex 51146-0600, Molex 51021-0600)
<b>Image Supported Formats</b>	RAW, BMP, WSQ, ISO 19794-4	RAW, JPEG2000, BMP, PNG, WSQ
<b>OS Support</b>	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)
<b>Certification</b>	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
<b>Environment</b>	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

\*\* Specifications subject to change without notice \*\*