BIOPTIX™ PX5

10" WINDOWS® BIOMETRIC TABLET

AMREL®
Pioneering Customized Rugged Solutions

Powerful 10" Mobile Tablet for Machine Readable Travel Documents

A rugged mobile solution designed for border security personnel, passport control officers, and other field operatives to streamline identity verification.

MRZ Reader

Fast, Automated Identity Verification Anytime, Anywhere

Speed and accuracy are key to a seamless identity verification process. Equipping BIOPTIX PX5 with MRZ Swipe reader enables fast, automated identity verification at borders and checkpoints, significantly *reducing waiting times and human error*. Immigration officers can instantly extract data, verify authenticity, and detect forged documents, making the overall identity verification process *smooth and highly effective*.

Pair other sensor options, such as NFC+smart card combo reader (CAC), 2MP/8MP front/rear camera, and integrated 2D barcode reader with OCR, to maximize your device's capabilities.

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 (9000mAh) 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.

SPECIFICATIONS - BIOPTIX PX5 10.1" RUGGED WINDOWS BIOMETRIC TABLET

Operating System	Windows 11 IoT Enterprise (64-bit)	**Sensor**	G-sensor, light sensor
Processor	• 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	• Standard 8GB DDR5 SDRAM • Optional 16GB/32GB DDR5 SDRAM (by request only; MOQ may apply)	**Battery**	• 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	• Standard 128GB M.2 SSD • Optional 256GB, 512GB, 1TB M.2 SSD *Larger capacity drives available upon request*	**I/O Interface**	• 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	• 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 12.6" x 0.9" (19.5 x 32 x 2.3 cm) 3.25 lbs (1.47 kg) [3]
Graphic	Intel® Iris® Xe	**LED Indicator**	• Power, Wi-Fi, Fn on/off • Battery full /charging/low
Control Button	• 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	• Wi-Fi 6E 802.11ax • Bluetooth V5.3 • GNSS (GPS/Glonass/BeiDou) • Optional 4G LTE/5G	**Environmental**	• 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	• 2MP front camera • 8MP auto focus rear camera with LED flash	**Security**	TPM 2.0
Data Collection	• MRZ Reader • NFC + Smart card reader (CAC) (Snap-on option) • 2D barcode reader (built-in option) (OCR option available)	**Accessories**	**INCLUDED:** • AC Power adapter • Stylus Pen **OPTIONAL:** • Hand strap • Shoulder strap • Handle **ACCESSORIES:** • 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.

SPECIFICATIONS - MACHINE READADABLE ZONE (MRZ) & RFID

MRZ Reader			**RFID Reader**	
Standard OCR Fonts	OCR-B	**NFC Frequency**	13.56MHz	
Machine Readable Passports (MRP)	2 lines of 44 characters	**NFC Tag Type**	• ISO/IEC 14443A, 14443B, 15693 • MIFARE 1K/4K, Ultralight • NFC-IP2 Protocol	
Machine Readable Visas (MRV)	2 lines of 44 characters 3 lines of 36 characters	**Smart Card Reader**	• ISO-7816 Compliant • EMV2000 (EMV 4.1) Compatible • Support PC/SC1.0 & PC/SC2.0	
Travel Documents	2 lines of 36 characters 3 lines of 30 characters	**Sensing Area**	**Cards:** • Atmel: AT88sc1608, AT88sc153 • Atmel: AT24c128, AT24c256 • ST: M14C16, M14C04 • Siemens 2-wire link protocol: sle4432/42 • Siemens serial 3-wire bus: sle4418/28	
OS Supported	Windows & Android			

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

AMREL®
AMERICAN RELIANCE, INC

For more informaiton, please contact:
AskUs@amrel.com | +1.626.482.1862
http://www.amrel.com

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