

RP70A BIO

All-in-one Biometric Handheld Tablet





RP70A BIO is the purpose-built device for mobile authentication and registration of individual identity. It uses integrated professional MRZ scanner, smartcard reader (contact or contactless), a fingerprint sensor, a dual iris scanner, a facial recognition camera, 1D / 2D Barcode scanner, MSR, UV LED and Infrared camera. For law enforcement, border control, civil enrolment and elections, the RP70A BIO is highly recommended. It enables improved security by including three types of biometrics in one mobile terminal: fingerprint, iris and facial recognition.

RP70A BIO uses the latest Android platform with advanced security features as well as reliable and high speed connectivity options as 4G LTE. RP70A BIO greatly streamlines and facilitates any challenging tasks of ID authentication and registration.

All-in-one Biometric Handheld Tablet

G2W proprietary RFID Reader
Specialized for eID & e-Passport



Professional & Dedicated MRZ Reader

Highly Effective, Reliable and Accurate Reading

Unlike camera and 2D Imager-based readers, its performance is not affected by

- Light reflection on the MRZ page
- Hand tremors

Moreover operators do not have to adjust distance between the page and camera or 2D imager, which causes a lot of time consuming and deteriorates productivity.

MRZ im Format td-3 (MRP, machine readable passport)

P<D<<ADENAUER<<KONRAD<HERMANN<JOSEPH<<<<<<<
1234567897D<<7601059M6704115<<<<<<<<<<<<<2

MRZ im Format td-2

IDD<<ADENAUER<<KONRAD<HERMANN<JOSEPH
1234567897D<<7601059M6704115<<<<<<<2

MRZ im Format td-1

IDD<<1234567897<<<<<<<<<<<<
7601059M6704115D<<<<<<<<<<<<2
ADENAUER<<KONRAD<HERMANN<JOSEF

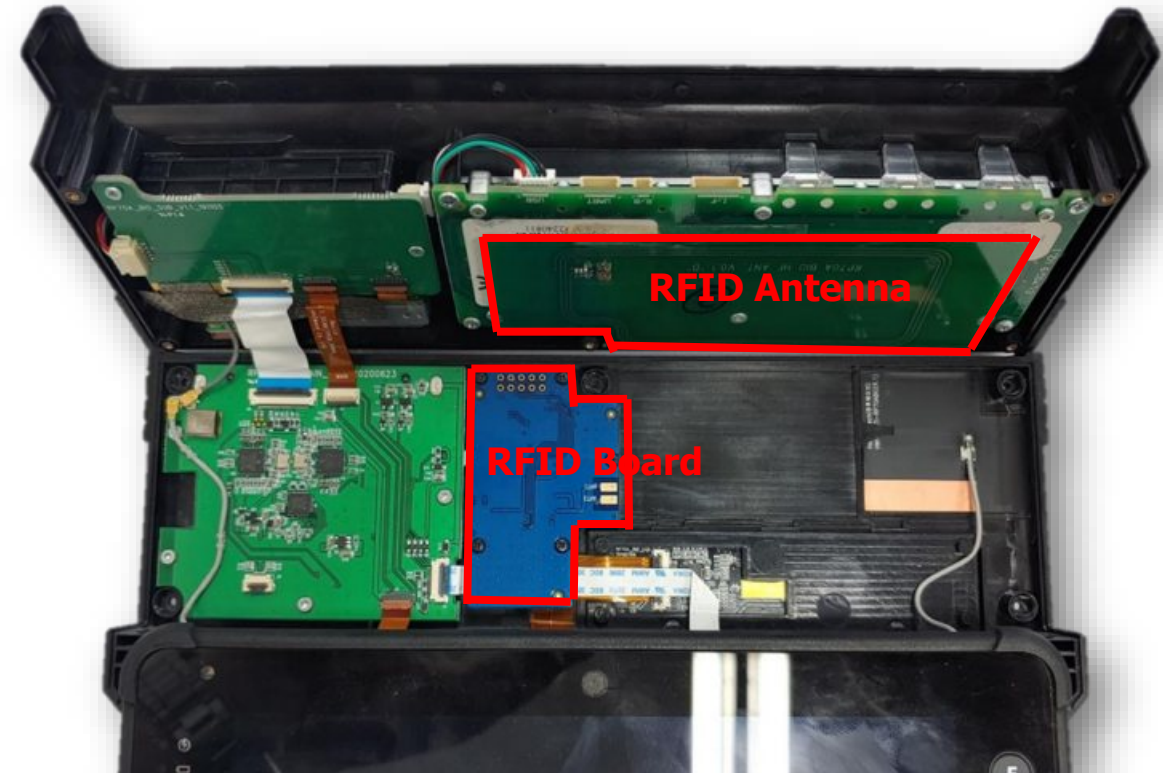


Ultra powerful RFID Antenna & Optimized RFID Reader

enabling to read any kinds of ePassport chip data
in prompt (2~3 sec) and reliable manner

tested with **120+ countries' ePassports**

Normal NFC reader takes 10~12 sec. and
it cannot read most of ePassport due to shielding
on a passport



MRZ and Tag Reading in one process

Insert ePassport into MRZ reading slot then tag reading is done automatically



Multi-modal Biometrics

Fingerprint, Dual Iris Capturing, Facial Recognition



Professional Barcode Scanner



- Ultra High Density Barcode Readable (PDF417)

Rugged & Compact Design

Compact & Light Weight

Rugged

Optimized to nomad work environment



Reliable Solution

- TAA Compliant
- FBI Certified
- U.S. GSA registered



U.S. General Services Administration

Technical Specification

Performance Characteristics	
CPU	1.8 GHz Hexa-core CPU
	Cortex A72 Dual-core 1.8GHz
	Cortex A53 Quad core 1.4Ghz
OS	Android 11
Memory	RAM 4GB, ROM 32GB (64GB/128GB optional)
Physical Characteristics	
Dimensions	213mm(H) x 195.3mm(W) x 30.55mm / 20.95mm(D)
Weight	850g
Display	7.0Inch / WXGA (1280x800)
Touch Panel	Capacitive Touch / Gorilla Glass
Display Visibility	700 nits (cd/m ²)
Keypad [Input]	3 Front Keys, 5 Side Keys [Programmable]
Interactive Sensor Technology	Motion-sensor : 3 axis accelerometer Ambient Light Sensor
Battery	Li-Polymer 10,050mAh [embedded]
Audio	Dual Speaker / MIC
User Environment	
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	Non-condensing, 93%
Drop/Sealing	1.2m (4 ft.) drop to concrete / IP65 [RP70A]
Integrated Radios	
Wireless (WWAN)	Frequency band EU (USA Optional)
	4G LTE : 800, 900, 1800, 2100, 2600MHz
	3G HSPA+ : 900, 2100MHz
	2G GSM/GPRS : 900, 1800MHz

Wireless LAN	IEEE 802.11 a/b/g/n/ac	
Bluetooth	Bluetooth 4.2 BLE	
GPS	A-GPS, GLONASS (optional)	
	Connectivity	
Communication Interface	Tablet Side : USB3.0A Host, USB2.0 OTG	
SAM Slots	2 SIM/2 SAM slots	
	Others	
Notification	Vibration and Charging LED	
	Data Capture	
Camera	13MP Rear Camera / 2.0MP Front Camera	
Scanner	2D Imager (Zebra SE4710)	
NFC	Integrated NFC Reader (NXP PN548)	
OCR (MRZ)	Font	OCR B
	MRZ Lines	MRZ Lines : 1 line : IDL, CAN, etc 2 line : ID2 cards, ePP 3 line : eID
	Module	BM-Slim 2 Suprema
	Sensor Type	Optical Sensor
Fingerprint Module	Sensing Area	16.5mm(W) x 21mm(L)
	Pixel Resolution	500 dpi
	Gray Scale	256 level
	Output Image Format	RAW, BMP, WSQ, ISO 19794-4
	Format	FBI PIV certified, FBI Mobile ID FAP 20

Digital ID & Biometrics Technology

Image Quality Standards		
Dual Iris Scanner	Camera	5MP B&W CMOS sensor
	Operating Range	320±40mm (11"~14")
	Resolution	Above 160 pixel/cm
	Iris Capture Volume	130mm x 45mm x 80mm
	Illumination	IR LED
	Image	2592 x 920 x 30 Frame IR LED

OCR / MRZ					
Global Parameters					
Module	ELY029				
	Conditions	Min.	Typ.	Max.	Unit.
Power Supply	With USB-J2 or UART-J3	+3.3	+5	+5.25	Voltage
Consumption on 3V	Scanning	-	-	180	
	Idle	-	45		
Consumption on 5V	Scanning	-	-		
	Idle	-	50		
Output	Voltage [on J4]	3.2	3.3		
	Current	-	-		

2D Imager		
2D Imager (Zebra SE4710, S/W Decoder)	Sensor Resolution	1280 x 800 pixels
	Field of View	Horizontal: 42°, Vertical: 28°
	Skew, Pitch & Roll	Skew Tolerance: ±60° Pitch Tolerance: ±60° Roll Tolerance: 360°
	Focal Distance	From front of engine: 7.64 in
	Aiming LED	610nm LED
	Illumination	1 Hyper Red 660nm LED
	Decode Ranges	
	4 mil Code 39	3.3 in./8.4 cm (Near) 8.8 in./22.4 cm (Far)
	5 mil Code 128	2.8 in./7.1 cm (Near) 8.2 in./20.8 cm (Far)
	5 mil Code 39	2.0 in./5.08 cm (Near) 13.5 in./34.3 cm (Far)
	5 mil PDF417	3.1 in./7.9 cm (Near) 8.4 in./21.3 cm (Far)
	10 mil DataMatrix	2.9 in./7.4 cm (Near) 10.1 in./25.7 cm (Far)
	100% UPCA	1.8* in./4.6* cm (Near) 26.0 in./66.0 cm (Far)
	20 mil Code 39	2.0* in./5.08* cm (Near) 30.0 in./76.2 cm (Far)

NFC		
PN548 / C2	Compliant Standards	NFC Forum, NCI, ETSI/SCP
	Transmission Modes Specification	NFCIP-1 NFCIP-2 ISO/IEC14443 ISO/IEC15693 MIFARE FeliCa
	Output Stage Range	3.0V~4.5V
IC Chip Card Reader		
GemCore Pos pro Chip	Certification	ISO 7816 certification
Global eID & ePassport RFID Chip reader		
Standard	ISO 14443 A & B Parts 1-4, MIFARE®	
Operating Frequency	HF, 13.56MHz	
Protocol	ISO 14443-4 Compliant Card, T=CL MIFARE® Classic Card, T=CL Optimized for e-Passport and eID card RFID chip	
It is our proprietary reader with powerful antenna. All kinds of ePassport RFID chip readable in prompt and reliable manner.		

Fingerprint Module		
BM-Slim 2 Suprema	Sensor type	Optical
	Certification	FBI PIV / FBI Mobile ID FAP 20 Certified
	Image Capture Area	0.6 x 0.8 (WxH inches)
	Types of fingerprints collected	1 finger flat
	Pixel Resolution/ Gray Scale	500ppi / 256 grayscale
	Operating temperature	-10°C ~ +50°C
	Operating Humidity	10~90% RH
	IP Rate	IP65

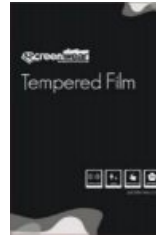
Accessories



AC line cord & Power supply



USB Cable Adaptor



Tempered Glass Film



Pen String



Touch Pen



Rotating Handstrap



Protection Case with
Shoulder Strap

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Reference



Government



CATSA
CANADA



Police Municipale
FRANCE



Costa Rica Police
COSTA RICA



Gendarmerie Nationale
FRANCE



FBI
USA



Hong Kong Housing Authority

Housing Authority
HONG KONG



Military



Spanish Navy
SPAIN



DEFENCE FORCES
KENYA



Department of Defense
USA



Koninklijke Marine
Royal Netherland Navy
NETHERLAND



Immigration & Border Control



Immigration Office
HONG KONG



Immigration Office
GHANA



Immigration Office
SENEGAL



Border Control Service
RUSSIA



Healthcare



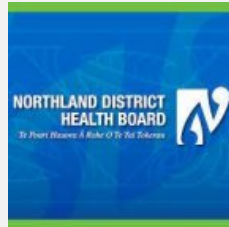
Moyne Health Service
AUSTRALIA



Barwon Health
AUSTRALIA



Heywood Rural Health
AUSTRALIA



Northland District Health
New Zealand



Mercy Health
USA



Saint John of God Hospital
AUSTRALIA



Royal Prince Alfred Hospital
AUSTRALIA



Monash Health
AUSTRALIA



Global Company



ThyssenKrupp Elevator
FRANCE



CROWN
AUSTRALIA



Procter & Gamble
CHINA



LA POSTE

LA POSTE
FRANCE



ENEDIS
FRANCE



GRDF
FRANCE



Energa
POLAND



Veolia
FRANCE



Dos Pinos
COSTA RICA



Lorenz
POLAND



G4S
SWEDEN



CHAM
FRANCE



Colis & Prive
FRANCE



Parking Malmo
SWEDEN

