



BioRover
4S

Go mobile, unique handheld biometric device to explore the uncharted application areas.

BioRover 4S



3.5"
COLOUR TFT



32 BIT, 1.5 GHz
QUAD CORE PROCESSOR



8GB DATA FLASH
1GB RAM



ULTRA FAST FINGER
PRINT SENSOR



INBUILT
USB 2.0



SUPPORTS MQTT,
SSL



5000 mAh LITHIUM
POLYMER BATTERY



INBUILT
WIFI



OPTIONAL
GSM

Key Features

► Biometric Handheld Device

Battery operated handheld device with reliable authentication by fingerprint and RFID technologies. Large sized high resolution TFT display with touchpad. Option of personalizing the display screen by adding company logo in specified display area.

► Data Communication

There are multiple interfaces over which the device can communicate with the host computer viz Wifi USB(Ethernet converter), and 4G GSM. One has the ease of choosing the interface for transferring the data.

► Multiple RFID Technologies

Supports popular RFID technologies with inbuilt EM reader and option of having Mifare, HID iClass and HID Prox readers. Fingerprint template can be stored on Mifare card to facilitate data portability & unlimited users.

► Support Distinctive Protocols

BioRover 4S is equipped to support distinctive protocols like TCP/IP IPv4, MQTT, NTP, SSL. Moreover, it also supports the popular 802.11 b/g/n WiFi connectivity.

► Application Areas

Device mobility is the key here. The inbuilt lithium polymer battery handles over 12 hrs. of heavy usage. This opens up choice of using it for various applications e.g. mining, school buses, classroom, infrastructure sites so on and so forth.

► Field Upgradable Software

Facility to onsite update device software through USB interface. The product updates can easily be applied without the need of removing device and sending it back to the service center.

► Elegant and Robust Design

Fairly robust product designed. Keeping in mind mostly outdoor usage, a rubber gasket has been given around the device. Appropriate shape, compact size give good grip to the device aside of elegant looks.

► Rugged Optical Fingerprint Sensor

Equipped with most reliable fingerprint matching algorithm to ensure unrivaled accuracy with best verification results. Auto finger update helps in keeping track of finger changes over the period thus takes care of dry, wet and swollen fingers.

HARDWARE

Finger Print Module	1 GHz, 32 bit, Dedicated DSP processor with 256 bit AES fingerprint data encryption
CPU	32 bit, 1.5 GHz quad core processor
Memory	8GB Data flash, 1GB RAM
Finger Print Sensor	Most rugged and accurate optical finger print sensor
Resolution	Fingerprint scanner with 500 dpi resolution
EER	<0.1%
Card Reader Support	Inbuilt EM reader** (optional Mifare†, HID Prox**, HID iClass† reader) for 1:1 match
Verification Time	1:1 match < 0.4 sec, 1:N match < 0.4 sec for less than 1000 fingerprint templates
Template Storage	25,00,000 fingerprint template storage for 1:1 match (25000 Templates for 1:N match)
Database	250,000 User database, Support of upto 10 fingerprint templates per user
Transactions	500,000 time stamped events storage capacity
Authentication Mode	Configurable mode : Only Finger, Only card, Card + Finger, Card or Finger
RTC	Non volatile real time clock calendar, Data retention for 10 years without external power
Display	3.5" Color TFT, Resolution 320 x 480 pixels
Touchpad	Capacitive touchpad
Audio	Inbuilt piezo buzzer
USB	USB 2.0 compliant Hi-Speed
WiFi	Inbuilt WiFi 802.11 b/g/n, Encryption : WEP/TKIP/AES, Security : WPA/WPA2-Enterprise
GSM	Optional GSM - GSM850/900,1800/1900/2100/2400. Supports 4G/3G/2G
Protocols	Supports TCP/IPv4 and IPv6, NTP, MQTT, SSL
Watchdog	Inbuilt watchdog supervisor
Battery	Inbuilt lithium polymer battery 3.7V/5000 mAh
Battery Life	4000 authentications
Charging Supply	5VDC / 2A, Charging Time Max 4.5 Hrs
Power	0.5 watt nominal, 3 watt peak
Enclosure	ABS-PC housing with sleek aesthetics
Operating Temp.	-15 to 55°C
Humidity	RH 5 to 95% Non-Condensing
Weight	340grams
Dimensions (mm)	H 214 x W 86 x D 50

** EM Prox - 125KHz (4100, 4102, 4200) and HID Prox - 125KHz (ProxCard II)
 † Mifare - 13.56MHz (Mifare 1K/4K, DesFire, DesFire EV1) and iClass - 13.56MHz (iClass 16k/32k)

Technical specifications may be changed from time to time without any prior notice due to continuous enhancements in the product.



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