



## KEY FEATURES

- **Rugged professional GPS/GIS Data Collector**
- **Windows Mobile 6.1 operation system platform**
- **High sensitivity GPS receiver**
- **3.5" QVGA sunlight readable screen**
- **Bluetooth, Wi-Fi and WCDMA connectivity**
- **3 megapixel camera**
- **Barometric altimeter, E-compass**



## Reliable and Competitive

GISA® M50 is a cost-effective professional GPS/GIS handheld receiver with SBAS enabled high-sensitivity GPS. It features sharp QVGA sunlight readable screen and up to 10 hours battery life with GPS and backlight.

## Connectivity

GISA® M50 integrates a WCDMA modem, that provides fast and efficient internet connection directly on the field, and with Bluetooth and Wi-Fi, that allow the user to transfer data conveniently and quickly on long distances.



## Versatile Data Collector

GISA® M50 is an ideal rugged field computer for a large range of applications from GIS data collection and maintenance, agriculture field measurement, environmental control, national land, electricity, pipeline patrol, such as water pipeline. . .

## Sensors

Barometric altimeter, E-compass, etc.



## Technical Specifications

### GNSS characteristics

- High-sensitivity SiRF IV chipset
- 48 parallel channels GPS L1, CA code
- SBAS (WAAS, MSAS and EGNOS) support
- Tracking sensitivity: -163 dBm  
Receiving sensitivity: -148 dBm
- Update Rate: 1Hz
- MMCX External Antenna support

### Performance specifications <sup>(1)</sup>

- Stand alone GPS: 2.5 m RMS
- With SBAS: 1-3 m RMS

### System configuration

- Windows Mobile 6.1 operating system
- 3.5" QVGA (320x240 pixel) TFT sunlight readable screen
- Marvell PXA310 624 MHz processor
- RAM: 256 MB, ROM: 512MB
- MicroSD card slot expansion to 32 GB
- 3 megapixel camera

### Communications

- Bluetooth 2.0
- 802.11 b/g Wi-Fi
- Support 3G WCDMA (850/1900/2100 Mhz)
- USB 2.0
- Optional RS232 9-pin serial
- Built-in microphone and speaker
- NMEA 0183 and SiRF protocol support

### Sensors

- Barometric altimeter, E-compass, Thermometer, Gyroscope



### Physical

- Size(LxWxH):171mm x 89mm x 40mm (6.7 x 3.5 x 1.6 in)
- Weight: 339 g without battery
- Operating Temperature: -20 °C to +60 °C (-4°F to 140°F)
- Storage Temperature: -40 °C to +70°C (-40°F to 158°F)
- Dust proof and waterproof as per IP67
- Drop: Resistant from 1.5 meters drop

### Electrical

- Li-ion battery capacity: 3000 mAh
- Battery life: up to 10 hours with GPS and backlight

### Package content

- GISA device
- Li-ion battery
- 4 GB Micro SD card
- USB cable
- AC power adapter
- Stylus pen with string
- Hand strap
- Screen protector
- Quick guide
- Inspection card
- CD

### Optional accessories

- External GPS antenna
- RS232 9-pin serial cable
- Vehicle charger

(1) Accuracy and reliability specifications may be affected by multi path, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices. SBAS (Satellite Based Augmentation System). Includes WAAS (Wide Area Augmentation System) available in North America only, EGNOS (European Geostationary Navigation Overlay System) available in Europe only, and MSAS available in Japan only.

Specifications subject to change without notice.

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