

Nilamtec A1 Series

IS IT A RUGGED SMARTPHONE? A1 IS MORE THAN A RUGGED SMARTPHONE, IT IS A TOOL FOR PROFESSIONAL USER TO IMPROVE THEIR PRODUCTIVITY

The Nilamtec A1 is a rugged handheld designed for Construction, GIS, Environmental Management, Public and Utility Field applications. A1 can be operated in either Kiosk or Mobile Mode. There are choices of A1 models to meet the GNSS accuracy requirements of location sensitive applications.

Kiosk Mode VS Mobile Mode

A1 is a full functioned Android smartphone. A1 can run Android Apps just as same as the Android smartphone in the market.

A1 can be also used as a kiosk device. For kiosk applications, A1 can be operated without battery, and the device supports auto power up. Once the power supply to A1 is on, A1 will be powered up automatically, and run the apps for you. A1 is an ideal product for construction site gate access control and remote monitoring.

GNSS Accuracy

The GNSS performance of A1 is better than the standard smartphones. A1 supports GPS, GLONASS and Beidou constellations. In addition to the strong GNSS reception power, A1 has choice of GNSS accuracy receiver options, which is from <math><1.5\text{ m}</math> RMS standalone real time GNSS to cm grade RTK built-in receiver. You can easily find a right model to meet the challenges of positioning accuracy of your field applications.

Reliability and Efficiency in The Field

You can take A1 as a smartphone to the field without worry about dust, water, damage caused by dropping the phone, high or low temperature, and long operation hour.

- A1 provides IP67 rated protection from dust and water ingress
- The operating temperature of A1 is from -20°C to $+60^{\circ}\text{C}$. A1 supports you in both cool winter and hot summer.
- User replaceable 4000 mAh battery allow you keep working all day long in remote sites.
- Integrated 16M pixel rear camera allows you take sharp photos for your information sharing.
- 5.5" AMOLED screen provides bright and easy to read display.

Not Just a Rugged Smartphone. It Is a Tool to Improve Your Productivity

It is a smart investment in A1. A1 helps you to improve your field operation efficiency in Worker Attendance Taking, E-work flow management, GIS data collection and more.



Global Distributor:
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Your Local Distributor:

Nilamtec A1 Series

STANDARD FEATURES

SYSTEM

- Integrated LTE cellular data, voice, and text capability
- 16MP rear camera, 5MP front camera
- High sensitivity GNSS receiver and antenna
- Bluetooth 4.1
- WIFI IEEE802.11 a/b/g/n/ac, 2.4GHz and 5GHz
- Capacitive multi-touch 5.5" AMOLED 1280 x 720 Gorilla Glass Screen, 450cd/m² Brightness
- 4000 mAh long lasting, user replaceable, wide temperature range battery
- Qualcomm MSM8940 Octa core 1.4GHz Processor
- 3GB RAM, 32GB Flash Memory
- Support Micro SD card
- Dual SIM, Dual Standby

OPERATING SYSTEM

- Android 8.1

COMMUNICATIONS NETWORK

- GSM:850/900/1800/1900,
- EVDO: BC0,
- WCDMA: B1/B2/B5/B8,
- TD-SCDMA: B34/B39
- TDD-LTE: Band38/Band39/Band40/Band 41,
- FDD-LTE: Band1/Band3/band4/band5/B and7/band8/band17/band20/band28
- WIFI: IEEE 802.11 a/b/g/n/ac, 2.4GHz and 5GHz
- Bluetooth: Bluetooth 4.1
- USB: USB 2.0, Type C
- NFC

- Extended Pogo Pin Interface: USB, UART, I²C, GPIO, Power Charging

POWER MANAGEMENT

- Battery: 4000 mAh wide temperature range, user replaceable Li-ion battery
- Fast Charging: Support Qualcomm QC 3.0 (need to work with QC 3.0 charger)
- Power on: Support auto power on

SENSORS

G Sensor, Temperature Sensors, Gyroscope, Light Sensor, E-Compass

TECHNICAL SPECIFICATIONS

PHYSICAL

- Size: 164.9 x 83.5 x 13 mm
- Weight: approx. 198 g (including battery, the weight various with models)
- Processor: Qualcomm MSM8940 Octa core 1.4GHz
- Memory: 3GB RAM, 32GB Flash
- User Interface: Hard Power, Volume up/down Keys
- Battery: 4000 mAh, user replaceable, wide temperature range Li-ion battery

ENVIRONMENTAL

Temperature:

- Operating: -20 °C to +60 °C
- Storage: -30 °C to +70°C

Humidity:

- 95% non-condensing

Dust and Water Proof:

- IP67

Drop Resistance:

- 1.2 m free drop to concrete

INPUT/OUTPUT

Extended Memory: Micro SD card (T card)

Display:

Damage-Resistant Gorilla Glass 5.5" AMOLED Capacitive Multi-touch screen
1280 x 720 Pixel resolution
450 cd/m² brightness

Audio:

Built-in speaker and microphone
Support USB-C type corded microphone

Camera:

Rear Camera: 16 MP with flash light
Front Camera: 5 MP

Sensors:

G Sensor, Temperature Sensors, Gyroscope, Light Sensor, E-Compass

GNSS SYSTEM

Models	A1	A1T	A1P
Internal Patch Antenna, L1, B1, G1, 72 channels	Yes	Yes	Yes
Integrated Real Time SBAS Dual Constellation System, GPS/GLONASS or GPS/BEIDUO	Yes	Yes	Yes
External GNSS Antenna	No	No	No
Android Location Services	Yes	Yes	Yes
NMEA output	Yes	Yes	Yes
Raw Data output	No	Yes	Yes
RTK	No	No	Yes
Standalone GNSS Accuracy (horizontal RMS)	<1.5 M	<1.5 M	<1.5 M
RTK Accuracy (horizontal RMS)	N/A	N/A	<5 CM



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