

# ENGONUS

## MOBILE COMPUTERS

### PRODUCT SPECS



### Optimize your Operations with Our PDA: Efficiency at Your Fingertips

Our system enables you to:  
Enhance operational efficiency.  
Streamline asset and inventory management.  
Implement technological solutions for your company's growth.

ENGONUS goes beyond a typical PDA. It's a comprehensive solution that combines IIOT software with hardware and a robust ERP system. Our platform is focused on holistic real-time management of assets and inventory, transforming industrial operations into a complete ecosystem. Our mission is to modernize business management through advanced technologies like IoT. Contact us to learn more about how ENGONUS can make your company more efficient and profitable.

## N60 SERIES MOBILE COMPUTERS

N60 is a classic-designed mobile computer that combines high performance with rugged durability, supports keyboard input and touch screen input. It runs on the Android 9.0 system and offers a variety of feature configuration options. Users can choose from a variety of scanning engines, as well as NFC and low-frequency RFID hardware module interfaces. Additionally, it offers specific feature modules that cater to various industries.

N60 is equipped with a 4-inch display screen and a high-capacity battery, and supports 4G and WiFi, ensuring a reliable user experience for users both indoors and outdoors.

Rayongtek provides personalized technical support to meet your individual needs for professional hardware solutions. In addition, we also offer an SDK software development kit to provide technical support for secondary development.



### FLEXIBLE HARDWARE CONFIGURATION SCHEME, SUPPORT CUSTOM SCAN ENGINE AND MORE FUNCTIONAL MODULES

Choose the scan engine that best meets your actual needs

The N60 supports a variety of different types of scanning engines to meet your different working conditions.

1D Scan Engine - Zebra SE955

2D Scan Engine - Zebra SE4710 / Honeywell N5703

Support installation of NFC, low frequency RFID module

N60 supports optional NFC module and low frequency RFID module

**NFC:** Working frequency band: 13.56MHz Supported protocols:

MifareClassic (MF1) NDEF, NfcV (15693), Ultraligh (MF0), IsoDep(quasi-CPU MF3), IsoDep (CPU) Reading distance 0-5cm (depending on the card type)

**LF RFID:** - LF RFID 125K / LF RFID 134.2K

Rugged design, passed tough drop and tumble tests. Can withstand 4ft/1.2M drop and over 1000 tumbles. IP66 Sealing, dustproof and waterproof. It can be used in high and low temperature working environment, without condensation in the humidity environment of 5% to 95%.

#### 4-inch Display

Larger display screen, more convenient touch operation. Supports multi-touch, Work with wet hands and capacitive pens, even with gloves on.

#### 3x Scan Buttons + Keyboard

There are 3x scanning buttons on the front and both sides of the fuselage, which can be held and operated with one hand, whether it is the right hand or the left and right hands.

Keyboard input can be more convenient for entering numbers.

Large-capacity battery provides longer-lasting work performance

4300mA Removable polymer lithium-ion battery, More than 12 hours working time, and more than 300 hours standby time.

Support secondary development

We provide a JAVA-based SDK secondary development kit and provide online technical support, so you can adapt your software program more easily.

**OEM / ODM Service.**  
Rayongtek also provide ODM/OEM product services. We have a complete supply chain for product development and mold making, and can provide flexible and fast solutions according to customers' non-standardized needs.

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For more detailed information about the product and our service, please visit: [engonus.es](http://engonus.es)

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# SPECIFICATIONS

| PHYSICAL CHARACTERISTICS |  |
|--------------------------|--|
| Dimensions               | 6.18 in. x 2.87 in. x 0.85 in.<br>157 mm x 73 mm x 21.6mm<br>The thickness of the scan window is 26.6mm  |
| Weight                   | 8.82 oz. / 250g with standard battery  |
| Display                  | 4.0 inch IPS High resolution 480 x 800; LED backlight; Touch panel;  |
| Touch Panel              | Multi mode capacitive touch with bare or gloved fingertip input ; Water droplet rejection; fingerprint resistant anti-smudge coating   |
| Power                    | Removable polymer lithium-ion battery, capacity: 4300mAh<br>3.8V normal use time: more than 12 hours, standby time: 300 hours<br>Use the standard power adapter and data cable to charge for 3-4 hours<br>Support optional - fast charging, fully charged in 2.5 hours |
| Expansion Slot           | User accessible MicroSD card supports up to 128GB  |
| SIM                      | Standard SIM card  |
| Network Connections      | WWAN<br>2G GSM (850/900/1800/1900MHz)<br>3G GSM (850/900/1800/2100MHz)<br>4G- FDD B1/B3/B4<br>4G- TDD B38/B39/B40/B41<br><br>WLAN<br>WIFI frequency: 2.4GHz & 5GHz<br>WIFI protocol: 802.11 a/b/g/n/ac protocol<br><br>WPAN<br>Bluetooth V5.0                          |
| Notifications            | Audible tone; multi-color LEDs; haptic feedback  |
| Keypad & Buttons         | On-screen keypad<br>3 x Scan Button (Front, left and right side)<br>15 x Keyboard Buttons  |
| Voice and Audio          | Microphone, Speaker, Earpiece  |
| Sensor                   | Gravity Sensor<br>Light Sensor<br>Distance Sensor<br>Vibration Motor   |
| GPS                      | GPS<br>Glonass<br>Galileo<br>Beidou  |

| USER ENVIRONMENT     |  |
|----------------------|--|
| Operating Temp.      | -4 °F to 140 °F / -20 °C to 60 °C  |
| Storage Temp.        | -104 °F to 158 °F / -40 °C to 70 °C  |
| Humidity             | 5%RH - 95%RH non condensing  |
| Drop Specification   | Multiple 12 m / 4 ft. drops (at least 30 times) to the concrete across the operating temperature range |
| Tumble Specification | 1000 x 0.5 m / 164 ft. falls at room temperature   |
| Sealing              | IP66 per IEC sealing specifications  |
| ESD                  | ±10 KV air discharge, ±6 KV conductive discharge   |

| PERFORMANCE CHARACTERISTICS |                               |
|-----------------------------|-------------------------------|
| CPU                         | Cortex A-53 2.0 GHz Quad Core |
| Operating System            | Android 9.0                   |
| Memory                      | 4GB RAM / 64GB ROM            |

| DATA CAPTURE |  |
|--------------|--|
| Scanning     | 1D Scan Engine<br>Zebra SE955<br>2D Scan Engine<br>Zebra SE4710<br>Honeywell N5703   |
| Camera       | Rear: 8MP Auto focus, Flash LED  |
| NFC          | NFC (Optional)<br>Working frequency band: 13.56MHz<br>Supported protocols:<br>MifareClassic (MF1) NDEF, NFCV (15693), Ultralight (MF0), IsoDep (quasi-CPU MF3), IsoDep (CPU) Reading distance 0-5cm (depending on the card type)<br>LF RFID (Optional)<br>- LF RFID 125K<br>- LF RFID 134.2K |

| SUPPORTED BARCODE FORMATS |   |
|---------------------------|---|
| 1D Symbolologies          | UPC, EAN, Bookland EAN, UCC Coupon Code, ISSN EAN, Code 128, GS1-128, ISBT 128, Code 39, Trioptic Code 39, Code 32, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, Korean 3 of 5, Matrix 2 of 5, Inverse 1D, GS1 DataBar, Composite Codes |
| 2D Symbolologies          | PDF417, MicroPDF417, Data Matrix, Data Matrix Inverse, Maxicode, QR Code, MicroQR, QR inverse, Aztec, Aztec Inverse,<br>Postal Codes: US Postnet, US Planet, UK Postal, Australian Postal, Japan Postal, Netherlands KIX Code, USPS 4CB/One/Intelligent Mail, UPS FICS Postal   |

The N60 supports the aforementioned extended features; however, they are not included as standard optional configurations. If your enterprise requires these extended functionalities, please get in touch with our technical consultant. [support@engonus.es](mailto:support@engonus.es)

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### N70 SERIES MOBILE COMPUTERS

The N70 is a newly designed Mobile Computer that combines high performance with rugged durability. Operating on the Android 12 system, it offers an array of feature configuration options. Comes with the flexibility of selecting from multiple scanning engines, as well as hardware module interfaces for NFC, low-frequency RFID, and ultra-high-frequency RFID. Additionally, it offers specific feature modules that cater to various industries.

With its 5-inch display screen and high-capacity battery, coupled with 4G and dual-band WiFi capabilities, the N70 ensures a reliable user experience both indoors and outdoors.

Rayongtek delivers personalized technical support, catering to your individual requirements for professional hardware solutions. Furthermore, we offer an SDK software development kit, providing technical support for secondary development.



#### FLEXIBLE HARDWARE CONFIGURATION SCHEME, SUPPORT CUSTOM SCAN ENGINE AND MORE FUNCTIONAL MODULES

Choose the scan engine that best meets your actual needs

The N70 supports a variety of different types of scanning engines to meet your different working conditions.

1D Scan Engine - Zebra SE955

2D Scan Engine - Zebra SE4750 / Honeywell N5703 / \*Zebra SE5500

\*If you need a longer scanning distance, you can choose Zebra SE5500, the scanning distance can reach 32.81ft/10M

Support installation of NFC, low frequency RFID module

N70 supports optional NFC module and low frequency RFID module

NFC:Working frequency band: 13.56MHz Supported protocols:

MifareClassic (MF1) NDEF, NfcV (15693), Ultraligh (MF0), IsoDep(quasi-CPU MF3),

IsoDep (CPU) Reading distance 0-5cm (depending on the card type)

LF RFID: - LF RFID 125K / LF RFID 134.2K

Support extended UHF RFID module

N70 supports extended UHF RFID module, the reading distance is 1.64ft/0.5M to 49.21ft/15M

\*The reading distance is based on the UHF RFID tag and the usage environment

Rugged design, passed tough drop and tumble tests. Can withstand 4ft/1.2M drop and over 1000 tumbles. IP66 Sealing, dustproof and waterproof. It can be used in high and low temperature working environment, without condensation in the humidity environment of 5% to 95%.

5-inch Display

Larger display screen, more convenient touch operation. Supports multi-touch, Work with wet hands and capacitive pens, even with gloves on.

3x Scan Buttons

There are 3x scanning buttons on the front and both sides of the fuselage, which can be held and operated with one hand, whether it is the right hand or the left and right hands.

Large-capacity battery provides longer-lasting work performance

5000mA Removable polymer lithium-ion battery, More than 12 hours working time, and more than 300 hours standby time.

Support secondary development

We provide a JAVA-based SDK secondary development kit and provide online technical support, so you can adapt your software program more easily.

The internal structural space of the fuselage supports more functional integration

The N70 fuselage has sufficient space redundancy to support the addition of more functional modules.

PSAM, vibration measurement, temperature measurement and other industrial data acquisition needs can be customized. [Marketing@rayongtek.com](mailto:Marketing@rayongtek.com)

OEM / ODM Service

Rayongtek also provide ODM/OEM product services.

We have a complete supply chain for product development and mold making, and can provide flexible and fast solutions according to customers' non-standardized needs.

## ENGONUS

For more detailed information about the product and our service, please visit: [engonus.es](http://engonus.es)

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# SPECIFICATIONS

| PHYSICAL CHARACTERISTICS |  |
|--------------------------|--|
| Dimensions               | 6.73 in. x 3.19 in. x 0.96 in.<br>171mm x 81mm x 24.4 mm<br>The thickness of the scan window is 26.6mm   |
| Weight                   | 12.7 oz. / 360g with standard battery  |
| Display                  | 5 inch IPS High resolution 720 x 1280; LED backlight; Touch panel;   |
| Touch Panel              | Multi mode capacitive touch with bare or gloved fingertip input ; Water droplet rejection; fingerprint resistant anti-smudge coating   |
| Power                    | Removable polymer lithium-ion battery, capacity: 5000mAh<br>3.8V normal use time: more than 12 hours, standby time: 300 hours<br>Use the standard power adapter and data cable to charge for 3-4 hours<br>Support optional - fast charging, fully charged in 2.5 hours |
| Expansion Slot           | User accessible MicroSD card supports up to 256GB  |
| SIM                      | Standard SIM card  |
| Network Connections      | WWAN<br>2G: GSM (850/900/1800/1900MHz)<br>3G: GSM (850/900/1800/2100MHz)<br>4G- FDD: B1/B3/B4/B7/B8/B12/B20<br>4G- TDD: B38/B39/B40/B41<br><br>WLAN<br>WiFi frequency: 2.4GHz & 5GHz<br>WiFi protocol: 802.11 a/b/g/n/ac protocol<br><br>WPAN<br>Bluetooth V5.1        |
| Notifications            | Audible tone; multi-color LEDs; haptic feedback  |
| Keypad & Buttons         | On-screen keypad<br>3 x Scan Button (Front, left and right side)<br>2 x Programmable buttons (F1, F2)  |
| Voice and Audio          | Microphone, Speaker, Earpiece  |
| Sensor                   | Gravity Sensor<br>Light Sensor<br>Distance Sensor<br>Vibration Motor   |
| GPS                      | GPS<br>Glonass<br>Galileo<br>Beidou  |

| USER ENVIRONMENT     |  |
|----------------------|--|
| Operating Temp.      | -4 °F to 140 °F / -20 °C to 60 °C  |
| Storage Temp.        | -104 °F to 158 °F / -40 °C to 70 °C  |
| Humidity             | 5%RH - 95%RH non condensing  |
| Drop Specification   | Multiple 12 m / 4 ft. drops (at least 30 times) to the concrete across the operating temperature range |
| Tumble Specification | 1000 x 0.5 m / 164 ft. falls at room temperature   |
| Sealing              | IP67 per IEC sealing specifications  |
| ESD                  | ±10 KV air discharge, ±6 KV conductive discharge   |

| PERFORMANCE CHARACTERISTICS |                                  |
|-----------------------------|----------------------------------|
| CPU                         | Helio P22 (MT6762) 8* A53 2.0GHz |
| Operating System            | Android 12                       |
| Memory                      | 4GB RAM / 64GB ROM               |

| DATA CAPTURE |  |
|--------------|--|
| Scanning     | 1D Scan Engine<br>Zebra SE955<br>2D Scan Engine<br>Zebra SE4710<br>Honeywell N5703<br>Zebra SE5500 (Max Scan Distance to 10Meter)  |
| Camera       | Front: 5MP<br>Rear: 8MP Auto focus, Flash LED  |
| NFC          | NFC (Optional)<br>Working frequency band: 13.56MHz<br>Supported protocols:<br>MifareClassic (MF1) NDEF, NfcV (15693), Ultralight (MF0), IsoDep (quasi-CPU MF3), IsoDep (CPU) Reading distance 0-5cm (depending on the card type)<br>LF RFID (Optional)<br>- LF RFID 125K<br>- LF RFID 134.2K |

| SUPPORTED BARCODE FORMATS |   |
|---------------------------|---|
| 1D Symbolologies          | UPC, EAN, Bookland EAN, UCC Coupon Code, ISSN EAN, Code 128, GS1-128, ISBT 128, Code 39, Trioptic Code 39, Code 32, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, Korean 3 of 5, Matrix 2 of 5, Inverse 1D, GS1 DataBar, Composite Codes |
| 2D Symbolologies          | PDF417, MicroPDF417, Data Matrix, Data Matrix Inverse, Maxicode, QR Code, MicroQR, QR inverse, Aztec, Aztec Inverse, Postal Codes: US Postnet, US Planet, UK Postal, Australian Postal, Japan Postal, Netherlands KIX Code, USPS 4CB/One/Intelligent Mail, UPS FICS Postal      |

| SUPPORT FOR ADDITIONAL EXTENDED FEATURES (OPTIONAL)  |   |
|--|---|
| PSAM   | PSAM - ISO7816, Support 2 PSAM Card   |
| Vibration Measurement  | - Speed 0.1-199.9m/s<br>- S2 Acceleration 0.1-199.9mm/s<br>- Displacement 0.001-1999 μm |
| UHF RFID   | 0.5-15 meters<br>(depending on the label, environment and module)                       |
| The N70 supports the aforementioned extended features; however, they are not included as standard optional configurations. If your enterprise requires these extended functionalities, please get in touch with our technical consultant. <a href="mailto:support@engonus.es">support@engonus.es</a> |   |

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