

NAUTIZ X81 Built to last

If you're working outdoors, you need tech that's limitless. Powerful and purpose-built – a device that can go anywhere and accomplish anything you need to do there. Introducing the Nautiz X81, an ultra-rugged handheld with full numeric keypad, designed gather data in extreme environments.

It always starts with the screen

It's the fondest wish for outdoor work: a screen you can actually see. Thanks to unique display technology, the Nautiz X81's screen delivers the best of both worlds: a truly sunlight-readable screen that's not a battery drainer. No more cranking up the brightness to see your screen, only to watch your battery indicator plunge.

What will last longer: You or your handheld?

Get ready to enjoy a new standard for in-the-field battery life. Helped by the efficient screen technology, the mighty power pack in the Nautiz X81 can work long hours, just like its users. Charge it via pogo-pin docking or using the fast-charging USB-C to get it ready to go in no time.

Accurate location data

The Nautiz X81 has a dedicated multi-band u-blox receiver for fast and accurate location data. The GNSS antenna supports GPS, GLONASS, Galileo and BeiDou as well as SBAS, so foresters, GIS field technicians and other mobile crews can rely on the Nautiz X81 for reliable performance.

Plus, an optional Real Time Kinematic (RTK) receiver offers centimeter-level accuracy for improved precision and time savings for surveying and mapping.

Topline technology

The Nautiz X81 brings the best technology to the work party. Its stout performance platform delivers great RAM memory and storage, flawlessly integrating graphics, and storing heavy data without a hitch. The Nautiz X81 runs Android 12 and is Android Enterprise Recommended (AER). It offers 5G performance while also operating on 4G/LTE if needed. It has both BT and NFC to connect with devices nearby.

Rugged enough for true outdoor work

This is a truly rugged performer, by any measure. Water and dust? The Nautiz X81 is rated IP67: waterproof and dust-tight. Temperature extremes? The Nautiz line has excelled in the scorching Australian Outback and bitter cold of Mt. Everest; it's reliable to -30°C to 60°C (-22°F to 140°F). Drops, vibrations, shocks, humidity? Bring it on: This mean machine meets MIL-STD-810G military performance standards for rugged operation.

Designed to adapt and expand

This ultra-rugged handheld lets you be productive in challenging work environments. And the versatile design lets you add barcode scanning, or even take advantage of 3rd party solutions using the handy expansion cap system. Plus, an entire accessory ecosystem ensures that you have what you need to use the Nautiz X81 in your specific work routine.



NAUTIZ X81

Dimensions 191 mm x 79 mm x 34 mm (7.5 x 3.1 x 1.3 in)

Weight 490 grams (17.3 oz)

Processor MediaTek i350, 4 cores 2.0 GHz

Graphics Arm Mali-G52 MC1

RAM and Storage 4 GB/64 GB

Operating System Android 12 (GMS) Android Enterprise Recommended

Display

4.8" capacitive multi-touch 720x1280 pixels Sunlight readable Glove/rain mode

Buttons

Front Numeric keyboard, F1, F2, power Side Volume up/down

Battery

3.6V 6600 mAh (23.76 Wh) Field replaceable

Ports

Fast charging Type-C, OTG USB A host RS232/RS422/RS485 Top connector for expandability Docking connector 1x micro SDXC 1x nano SIM

Communication Cellular (WWAN)

Global 5G (n1,3,5,7,8,20,28,38,40,41,75,76,77,78) 4G/LTE (B1,3,5,7,8,20,28,32,38,40,41,42,43) North America 5G (n2,5,7,12,13,14,25,26,29,30,38,41,48,66,70,71,77,78) 4G/LTE (B2,4,5,7,12,13,14,17,25,26,29,30,38,41,42,43, 48,66,71) *Data only

Wireless LAN

2.4GHz + 5GHz 802.11 a/b/g/n/ac PAN BT 5.0 LE. Compatible with 2.1 EDR NFC 13.56 MHz ISO 14443A/B, ISO 15693 Audio Rear-facing speaker Microphone

Positioning

Dedicated u-blox NEO-M8U GNSS receiver GPS/GLONASS/Galileo/BeiDou/QZSS, SBAS

RTK Expansion (optional)

u-blox ZED-F9P Multi-band GNSS high-precision receiver



Cameras

Rear 13 megapixel with autofocus and flash Front 5 megapixel

Sensors

Accelerometers Gyroscope Magnetometer Pressure Proximity Ambient temperature Ambient light

Environment

Operating -30°C to 60°C (-22°F to 140°F) MIL-STD-810G, Method 501.5/502.5 Procedure II, III Storage

-40°C to 70°C (-40°F to 158°F) MIL-STD-810G, Method 501.5/502.5 Procedure I

Drop / Shock 26 drops from 1.5m (5 ft) to concrete MIL-STD-810G, Method 516.6 Procedures IV

Vibration MIL-STD-810G, Method 514.6 Procedure I Sand / Dust

IP67, IEC 60529

Water IP67, IEC 60529

Humidity

0 ~ 95% (non-condensing) MIL-STD-810G, Method 507.5 Procedure II Altitude

4572 m (15.000 ft.) MIL-STD-810G, Method 500.5 Procedure I

Solar Exposure Tested against prolonged UVB exposure, MIL-STD-810G, Method 505.5, Procedure II

Temperature Shock Cycles between -30°C and 60°C (-22°F and 140°F), MIL-STD-810G, Method 503.5, Procedure I-C

Options

For options and accessories, please see www.handheldgroup.com/nautiz-x81

