



Datasheet Nautiz X81

Built to last

V1.0, EN

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.

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-810H 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.

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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

Cameras

Rear

13 megapixel with autofocus and flash

Front

5 megapixel

Sensors

Accelerometers
Gyroscope
Magnetometer
Pressure
Proximity
Ambient light

Environment

Operating

-30°C to 60°C (-22°F to 140°F)
MIL-STD-810H, Method 501.7/502.7 Procedure II

Storage

-40°C to 70°C (-40°F to 158°F)
MIL-STD-810H, Method 501.7/502.7 Procedure I

Drop / Shock

26 drops from 1.5m (5 ft)
MIL-STD-810H, Method 516.8 Procedure IV

Vibration

MIL-STD-810H, Method 514.8, Procedure I
(non-operating and operating)

Sand / Dust

IP67, IEC 60529

Water

IP67, IEC 60529

Humidity

RH 95%
MIL-STD-810H, Method 507.6 Procedure II

Altitude

4572 m (15,000 ft.)
MIL-STD-810H, Method 500.6 Procedure I

Temperature Shock

Cycles between -30°C and 60°C (-22°F and 140°F),
MIL-STD-810H, Method 503.7, Procedure I-C

Options

For options and accessories, please see www.nordalp.com/en/products/nautiz-x81



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