

# RT86-PRO 8" IP65 Water Resistant 1000NIT Sunlight Readable Military Grade Rugged Windows 11 Tablet PC



## Description

The 8" **RT86-PRO Industrial-grade Rugged Windows Tablet PC - PRO Edition** manufactured by **Xenarc Technologies** brings versatility and usability to our 8" line of industrial and commercial-grade tablet PC. The **Pro Edition** have these enhancements over our standard RT86: **8GB of memory**, **128GB of internal storage**, and runs on **Windows 11 Pro**. This ruggedized tablet computer is not only **IP65** and **NEMA4** rated for dust and water resistance, but it is also **sunlight readable** with a

brightness of **1000 NIT** and it's Ruggedized Enclosure provides drop and vibration resistance. This multi-functional tablet has one **HDMI output** and one USB-C port that supports **video over USB-C**, allowing connection to up to two external monitors or touchscreen monitors at the same time, making it a perfect companion to our line of rugged displays, with touchscreen or not. It also incorporates **3G/4G LTE cellular** support, 802.11 A/B/G/N/AC WiFi, and Bluetooth 5.0, making it perfect for almost any military, law-enforcement, automotive, industrial, and mobile telematic application. The RT86-PRO is powered by a swappable 5000mAh battery that provides hours and hours of usability before requiring recharge.

Using the RT86-PRO is a breeze. The **RT86-PRO 8" Rugged Windows Tablet PC** comes with a projected capacitive multi-touch touchscreen (PCAP). The touch panel itself is ruggedized to prevent cracks or scratches. Take pictures with the dual cameras (8MP rear, and 5MP front) or use the built in GPS sensor to allow location tracking. The applicability of this unit in any situation is limitless.

Why do our products outlast others in extreme conditions? Why do our products have a wider temperature range and a wider voltage input range? It is because our mission is to offer our customers the best products for any situation. By utilizing high grade components, this tablet is perfect for industrial, in-car computing applications or any other applications where a small, durable, environmentally rugged tablet / mobile IOT Terminal is required, including but not limited to:

- **Transportation** - Marine, Air, Heavy Vehicles, Mining, Weigh Stations, Fleet Management, Telematics, In-Car Computing, Public Transit, Cargo
- **System Integration** - Machinery Controls, Factory Automation, Environmental Monitoring, Home Automation, Military, Smart Home
- **Point of Sale** - Hospitality, Digital Signage, Self-Service Kiosks, Outdoor Kiosks and Signage, Casino
- **Data Monitoring** - Cloud, IoT, Medical, Logistics, Inventory Management, Oil & Gas/Utilities, Law Enforcement, Broadcasting, Veterinary, First Person View

***\*IP65 rating is Lab Certified based on controlled test conditions for resistance against low pressure jets of water from all directions while port covers are properly closed. Water resistance is not permanent condition and resistance might decrease as a result of normal wear. In accordance with industry wide policy, liquid damage is not covered by limited warranty.***

## Features

- IP65 / NEMA4 Rated Water and Dust Resistance
- Military Grade Ruggedized Enclosure, Drop / Vibration Resistant

- Toughened Projected Capacitive Multi-Touch Touchscreen
- 8 Inch 1280 x 800 HD IPS / AAFS 1000NIT Sunlight Readable Display
- Dual Display Output with HDMI 1.4a mini and DisplayPort over USB-C
- 8.0MP Rear Camera and 5.0MP Front Camera
- 2G/3G/4G LTE Cellular Support
- 802.11 a/b/g/n/ac WiFi
- Bluetooth 5.0 (BLE)
- Built-in GPS: GPS+Glonass
- Accelerometer, Orientation Sensor, Gravity Sensor, Linear Acceleration Sensor
- Rotation Vector Sensor, Magnetic Field Sensor, Gyroscope Sensor
- Long-life 5,000mAh Battery
- FCC, CE, CCC Certification
- ROHS, REACH, ECE R118-03 Compliant
- 24 Month / 2 Year Warranty (Battery 1 Year Warranty)

## Package Contents

- AC Adaptor with USB-C Charging Cable
- Hand Strap

## Specification

- Processor: Intel Celeron Processor N5100 Qua-Core, up to 2.8GHz
- Internal Memory: 8GB RAM + 128GB ROM EMMC
- External Memory: MicroSD Card (Up to 512GB)
- Operating System: Windows 11 Pro
- Display: 8-Inch Industrial Grade 1280 x 800 HD IPS / AAFS LCD Display
- Brightness: 1000 cd/m<sup>2</sup>
- Touchscreen: 5 point Multi-touch Capacitive, Anti-Salt / Anit-Fog, 9H Hardness, Anti-Glare Screen Protector
- Cameras: 8.0MP(AF) with Flash LED Primary Camera and 5.0MP Secondary Camera
- Sim Card: 1.8/3.3V SIM Card
- Cellular Network Support: 3G/4G - WCDMA(B2/4/5), LTE-FDD(B2/4/5/12/13/14/66/71)
- Bluetooth: BT5.0 (BLE)
- WiFi: Dual-band (2.4GHz/5.8Ghz) single stream 802.11 a/b/g/n/ac
- USB Port: USB 3.0 x 1, USB-C x 1
- Navigation: GPS+Glonass
- Display Output: HDMI 1.4a mini x 1, DisplayPort over USB-C
- Data Interface: USB Type-C 24Pin support OTG
- Earphone: Standard 3.5mm x 1
- Power Charger: USB Type-C
- Battery: 5000mAh / 7.6V
- Operating Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Temperature: -22°F ~ 158°F (-30°C ~ 70°C)
- Electrostatic Discharge: ± 8KV contact discharge, ± 10kV air discharge

- Relative Humidity: 95% Non-Condensing
- Operating Altitude: 4,500m (15,000 Feet) Max
- Shake-proof: 1-19Hz / 1.0mm; 19-200Hz / 1.0g
- Dropproof: MIL-STD-810G 1.22m drop
- Dust Resistant: Class 6 (IEC 60529)
- Water Resistant: Class 5 (IEC 60529)
- MTBF (Mean Time Between Failures): > 55,000 Hours or > 6.2 Years of continuous operation;  
MTTR < 0.5 Hour
- Dimension (mm): 236.7W x 155.7H x 20D
- Weight (lb): 2.2