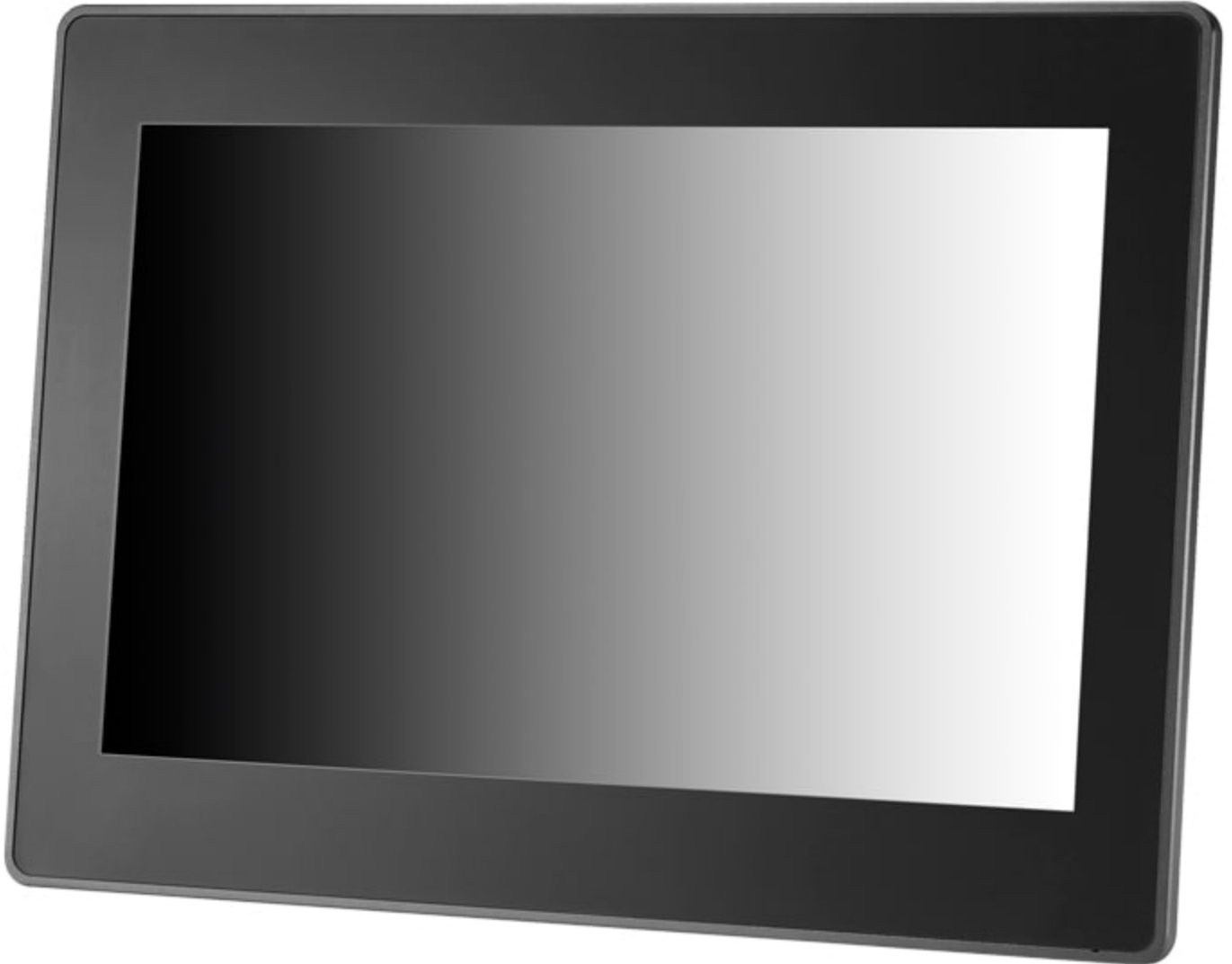# PPC1211 12.1 inch IP65 Sunlight Readable Rugged Panel PC

Description

The Xenarc PPC1211 12.1" **Rugged Panel PC** is the most versatile and all-encompassing product in Xenarc Technologies' line up of products. This **16:9 1000 NIT High Bright Panel PC** is **IP65** and **IK08** rated and includes an optically bonded capacitive touchscreen, making it ideal for any harsh industrial environment. It utilizes Intel's **automotive and industrial grade, extended temperature** E3845 Quad-Core 1.91Ghz CPU with wide operating temperature range. The 12.1 inch touch panel is optically bonded to the LCD panel, eliminating the air gap between the two, increasing clarity, contrast, and durability. Furthermore, because this 12.1" rugged panel pc is water tight and air tight,

advanced optical bonding will not allow ambient humidity to affect the clarity or viewability. The PPC1211 12.1" rugged panel PC outperforms all other **automotive grade panel PC's** with a wider operating temperature range of **-30C ~ 85C (-22F ~ 185F)** and uses an IPS panel (In-Plane-Switching), which provides a wider viewing angle, consistent and accurate colors from all viewing angles, clearer images, and stable response times. A **high contrast ratio of 1000:1** provides crisper images and vivid colors, even in direct sunlight.

The PPC1211 was designed for those looking for a rugged, bright, all-in-one panel PC, usable in just about any environment or application.

The versatility of the PPC1211 extends beyond its usability in many different environments. With the included waterproof cables, the PPC1211 is IP65 on all sides. The casing of the PPC1211 is designed to be used as a stand-alone panel PC as well as a panel mounted PC. VESA standard mounting holes on the back further provide users with a variety of mounting options. The IK08 rating makes the PPC1211 vandal resistant and shock resistant.

Why will our **PPC1211 Rugged Panel PC** 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 panel PC is perfect for industrial, in-car computing applications or any other application where a durable, ruggedized panel PC 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
- **Broadcast & Production** - Broadcast Stations, Mobile Production Vehicles, Field Rugged Deployment for your mobile workforce, Studio Video Production

- **Sunlight Readable – Ready for all environments**
- **Waterproof/Dustproof– Built to Stringent IP67 Standards**
- **Bonded Glass – Optically Enhanced for clarity and viewability**
- **Automatic Dimming – Built in Ambient Light Sensor**
- **Extended Temperature Range**

Features

- IP65 / NEMA4 Rated Water and Dust Resistance
- Intel Atom E3845 Quad-Core 1.91Ghz Automotive Grade CPU
- 12.1 Inch 1280 x 800 IPS Wide Viewing Angle Display
- 1,000NIT Sunlight Readable with Long Life LED Backlight
- Toughened Projected Capacitive Multi-Touch Touchscreen
- Optical Bonding, Anti-Reflective and Anti-Fingerprint Coating
- 2G/3G/4G LTE Cellular Internet
- 802.11 B/G/N/AC WiFi, Bluetooth 4.0
- Dual Gigabit Ethernet
- USB 3.0, RS232 Serial Ports
- GPIO and CAN BUS
- Built-in GPS and G-Sensor
- Built-in and Remote Power Switches
- Chip Monolithic Ceramic Capacitors for Improved Durability
- VESA 75mm Mounting Holes
- Rugged Aluminum and Stainless-Steel enclosure
- Supports 9V DC ~ 36V DC
- "E" Mark Certified for Automotive use
- FCC, CE, E13 Certification
- Vibration / Shock Resistant
- IK08 Impact Resistant
- ROHS Compliant
- 36 Month/3 Year Warranty
- 30 Day No dead Pixel Guarantee

Package Contents

- 2M Waterproof Power Lead with Remote Power Switch
- 2M Waterproof Dual USB Cable x 2
- 2M Waterproof RJ45 Cable
- 2M Waterproof DB9 Serial Port Cable
- 5M Waterpoof HDMI Cable
- 2M M16 Waterproof RJ45 Cable
- 2M M16 Waterpoof GPIO Cable

Specification

- Processor: Intel Atom E3845 Automotive Grade Processor (4 Cores, 2M Cache, 1.91Ghz)
- Memory: 8GB RAM DDR3L-1333
- Internal Storage: 256GB M.2 2280 Solid State Drive
- External Storage: Micro SD Card Slot x 1
- Operating System: Windows 10 IOT 2019 LTSC
- Display: 12.1-Inch Automotive Grade 1280 x 800 IPS LCD
- Display Brightness: 1000 cd/m² Sunlight Readable

- Display Contrast Ratio: 1000:1
- Display Viewing Angle: 178° Horizontal, 178° Vertical
- Display Response Time (Tr+Tf): 25ms (Typ.)
- Sim Card: 1.8/3.3V SIM Card
- Cellular Network Support: 2G/3G/4G - GSM(B2/5), UMTS(B2/4/5), LTE-FDD(B2/4/5/12/13/17/28)
- Bluetooth: Bluetooth 4.0
- WiFi: 802.11 A/B/G/N/AC (2.4G and 5G)
- Navigation: GPS
- USB: USB 3.0 x 4
- Serial Port: RS232 Serial port x 2
- GPIO: 8 Bit Programable GPIO x 1
- Audio: Built-in Waterproof Speaker x 2, Audio Input x 1, Audio Output x 1
- Video Output: HDMI Output x 1
- G-Sensor: Built-in G-Sensor
- Power Switch: Built-in Power Switch x 1, Remote Power Switch x 1
- Operating Voltage Range: DC 9V ~ 36V
- Power Consumption: ? 40W
- Operating Temperature: -22°F ~ 185°F (-30°C ~ 85°C)
- Storage Temperature: -22°F ~ 185°F (-30°C ~ 85°C)
- Relative Humidity: 5% ~ 95%
- Vibration: Operating Random Vibration Test (5-500Hz, 1.0Grms), IEC 60068-2-64 standard
- Shock: Operating Shock Test, 10G peak acceleration (11ms duration), IEC 60068-2-27 standard
- MTBF (Mean Time Between Failures): > 55,000 Hours or > 6.2 Years of continuous operation
- Dimension (mm): 312W x 230H x 67.2D
- Weight (lb): 7.05