Hemisphere®

RUGGED TABLET PC FOR MACHINE CONTROL SYSTEMS

IronOne is a rugged display and computer designed for tough and extreme conditions. Ideal for machine control environments requiring an easy to read display, powerful I/O, and flexible adoption into multiple applications.

IronOne is equipped with an 8" LCD display containing a high-sensitivity touchscreen. Providing an IP67 rating, IronOne is designed to function in challenging environments including machine control. Showcasing an outstanding image quality with a 1280x720 resolution, the IronOne is easy to read and use in low or high visibility scenarios. With the processing power of an Intel dual-core processor, the IronOne will handle large file transfers and complex file formats. IronOne includes 32GB internal SSD.

IronOne runs on a fully featured Windows 10 platform. Allowing complete Windows support with the ruggedness to stand up to the extreme environments of heavy machinery.

Key Features

- Windows 10 operating system
- Wi-Fi and Ethernet support
- Cellular modem allows for full connectivity in the field
- IP67 certified

System
Processor: Intel Atom dual-core CPU E3825 @ 1.33 GHz
Storage: SSD 32GB, RAM 2GB
Operating System: Windows 10

Screen
Display Type: 8" TFT-LCD capacitive touchscreen
Size: 192.8 mm × 116.9 mm (7.59" × 4.6")
Resolution: 1280 × 720, 16:9
Luminance: 750 nit

Input
Power Button: 1× mechanical waterproof button
Function Button: 2× mechanical waterproof buttons
Ignition Input: Yes

Communication
Serial Port: 1x RS232×1, 1x RS422/RS485/RS232 (software controlled)
Camera Interface: 2× CVBS
USB: 1× USB 2.0
Ethernet: 10/100
Wi-Fi: IEEE 802.11b/g/n
Cellular: 4G LTE
Data I/O Protocol: NMEA 0183

Mechanical
Dimensions: 22.9 L x 16.9 W x 5.2 H (cm)
9.0 L x 6.6 W x 2.0 H (in)
Weight: 1.38 kg (3.04 lbs)
Mount: Adjustable 1.5" RAM ball mount

Environmental
Operating Temperature: -20°C to +70°C (-4°F to 158°F)
Storage Temperature: -40°C to +85°C (-40°F to 185°F)
Operating Humidity: 30% ~ 95% (Relative Humidity)
Storage Humidity: 45% ~ 80% (Relative Humidity)
Enclosure: IP67
Vibration: EP455 5.15

Power
Input Voltage: 7 - 36 VDC
Power Consumption: 36 W
Current Consumption: 3.0 A @ 12 VDC

Sensor & Multimedia
1x 2 W Buzzer
1x Headphone Jack

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