R10IB3S-MLT2

10.4" Intel® Celeron® N2930 G-WIN Defence Panel PC

KEY FEATURES

- Defence grade power connector
- Ultra Low Power but High Performance Intel® Bay Trail N2930 1.83 GHz
- Fanless Design
- High Quality 10.4" Panel, 1024 x 768 Resolution
- Full IP65 Dust/water resistant Protection (Except I/O parts)
- Aluminum Housing with Anti-Corrosion Treatments
- Anti-Shock and Vibration Standard according to MIL-STD-810F/G & IEC60068-2-27
- 5 Wire Resistive Touchscreen / Anti-Reflection Protection Glass (Optional)
- 802.11 a/b/g/n Wireless LAN with Antenna (Optional)
- Wide Range 9 to 36 V DC Input (Optional)

INTRODUCTION

Winmate G-WIN Defense Panel PC Series is designed for demanding military and defense applications, offering sizes from 8.4" to 15" with robust features and reliable performance. Built with defense-grade power connectors, aluminum housing with anti-corrosion treatment, and full IP65 water and dust resistance, these PCs withstand harsh environments. Featuring sunlight-readable displays, fanless design, and compliance with MIL-STD-810F/G standards, they are ideal for mission-critical operations. Optional wireless LAN, resistive touchscreens, and wide voltage input enhance versatility and connectivity.

SPECIFICATIONS

Display

Resolution	1024x768	**Size**	10.4 inches
Contrast Ratio	1000:1	**Panel Brightness**	500.0 nits
View Angles	88,88,88,88	**Active Area**	210.4x157.8 mm
Touch / Glass	AR Protection Glass (Default) 5 Wires Resistive Touch (Optional) 5 Wire Resistive with EMI Mesh Filter (Optional) EMI Glass (Optional)		

System Specification

Processor	Intel Celeron N2930 1.83GHz (up to 2.16GHz)	**Memory**	1 x SO-DIMM, DDR3L 1600 MHz, 4GB (Default) 8GB (Optional)
Storage	1 x mSATA SSD 128GB (Default) 256GB (Optional) 512GB (Optional)	**Ethernet controller**	2 x Intel® Ethernet Controller
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 20.04 (Optional)	**WLAN**	Support (Optional)
BT	Support (Optional)		

Environment

Operating Humidity	10% to 95% RH	**Operating Temperature**	-20°C to 60°C
Storage Temperature	-30°C to 70°C	**Shock**	USA: MIL-STD-810H Method 516.8 – Procedure I Operating:30g for 18ms NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 402–Procedure I (optional)
Vibration	USA: MIL-STD-810H Method 514.8 – Procedure I Operating: 1.60/1.96/2.18 g rms for XYZ / 5-500Hz NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 401–Procedure I (optional)	**TEMPEST**	USA: NSA NSTISSAM TEMPEST/1-92 (optional) NATO: NATO SDIP-27 (optional)

Compliance

MIL-STD 461G	USA: MIL-STD-461G: CE101, CE102, RE101, RE102, CS118 (default) CS101, CS114, CS115, CS116, RS101, RS103 (optional) NATO: STANAG 4370/AECTP-501: NCE01, NCE02, NRE01, NRE02, NCS12 (default) NCS01, NCS07, NCS08, NCS09, NRS01, NRS02 (optional)	**MIL-STD 810H**	USA: MIL-STD-810H (default): Vibration Method 514.6 Humidity Method 507.6 Transit Drop Method516.6 NATO (optional): Vibration Test STANAG 4370/AECTP-401 Shock STANAG 4370/AECTP-402 Procedure I Drop and Topple Test STANAG 4370/AECTP-404

Certification

Certification	CE, FCC

IO Ports

USB Port	1 x USB2.0 1 x USB3.0	**Serial Port**	1 x RS232(Default)/422/485
Video	1 x HDMI (Optional)	**LAN**	2 x RJ45
Indicator	1 x PWR LED 1 x HDD LED		

Mechanical

Dimension	315.9 x 250.9 x 67 mm	**Mounting**	VESA mount
Enclosure	Metal Housing with Aluminum Bezel	**Cooling System**	Fanless Design

Accessory

Accessory	User Manual Driver CD and User Manual Touch Driver CD Open Wire Cable 100~240V AC to DC Adapter Power Cord

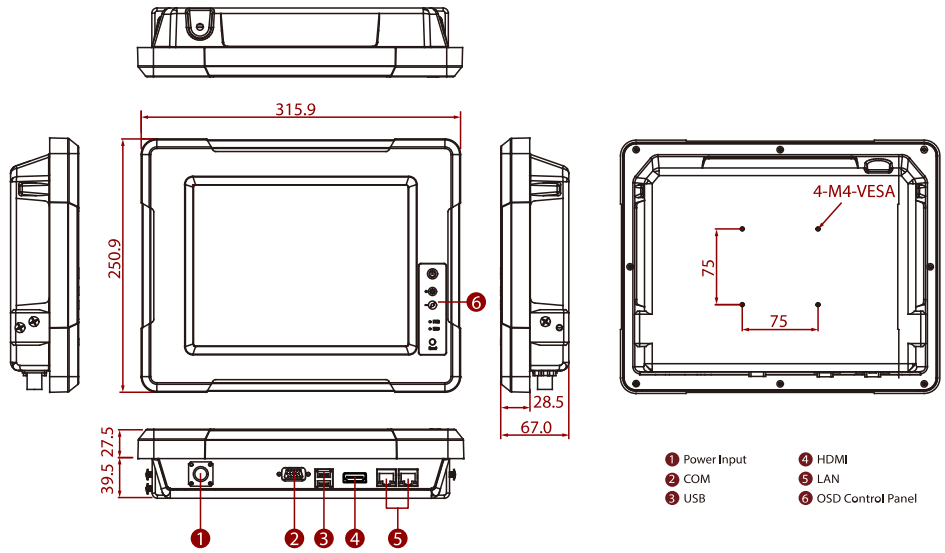
Power

Power Rating	12V DC (MIL-DTL-38999/1 connector) (Default) 9V to 36V wide range (Optional)

Control

Button	4 Keys: Power, Brightness Up, Brightness Down, Reset

DIMENSIONS UNIT:MM



NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.