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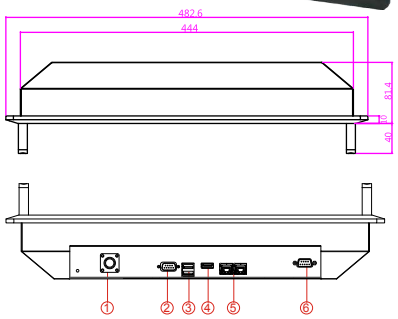
Military Grade 20.1" Rack Mount Panel PC (Intel® Celeron Platform)

MODEL #: R20IB3S-RKA2ML

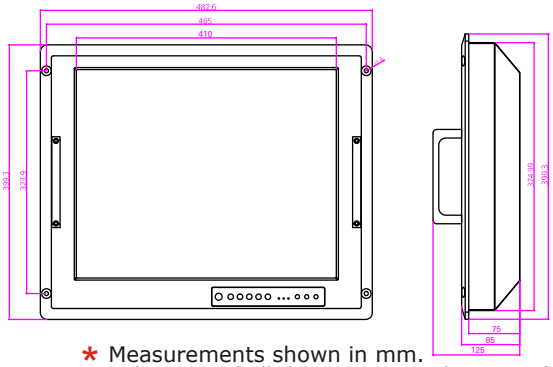
Mechanical Design

- 20.1" LCD 1600x1200
- Intel® Celeron N2930 2.16GHz Processor
- Anti-Corrosion Housing / Fanless
- Compliant with MIL-STD-810G/F
- Flush Rack / Rack Mount Mechanical Design (9U)
- Convenient On-Screen Display Controls
- AC 110~240V Power input default / Isolation DC 9~36V Power input (Optional)
- Built-in Light Sensor for auto brightness control
- Military Grade Power Connector (MIL-DTL-38999/1)

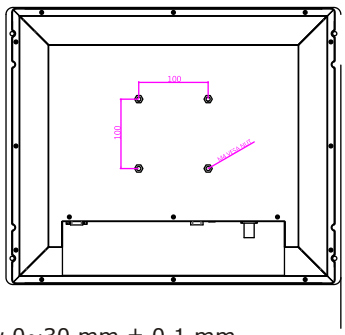
FRONT VIEW



SIDE VIEW



BACK VIEW



1. Power in (MIL-DTL-38999/1)
2. RS232/422/485 (Default RS232)
3. 1 x USB 2.0 / 1 x USB 3.0
4. HDMI
5. LANx2
6. RS-232(Optional)

* Measurements shown in mm.
* Tolerance of all dimensions is shown as follow 0~30 mm ± 0.1 mm, 30~50 mm ± 0.15 mm, 50~120 mm ± 0.2 mm, above 120 mm ± 0.25 mm.
* Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

Display Specification

Characteristics :

• Resolutions	:	1600 x 1200
• Brightness	:	300 cd/m² (typ.)
• Contrast Ratio	:	1400 : 1(typ.)
• Viewing Angles	:	-85~85(H);-80~80(V)
• Max Colors	:	16.7M(Colors)

System Specifications :

• Processor	:	Intel® Celeron N2930 2.16GHz
• BIOS	:	AMI 16Mbit Flash
• System Chipset	:	Intel® SoC Integrated
• System Memory	:	1 x SO-DIMM DDR3L 1066/1333 default 4GB
• Lan Controller	:	Intel® I210-AT GbE LANx2
• Storage	:	mSATA SSD, Default 64GB
• Audio Codec	:	Realtek ALC886 HD Audio Codec

* A customized housing is needed if you would like to have the PCI expansion.

Power Specifications :

• Power Input	:	Default AC 110~240V in Optional isolation 9~36V DC in

Environment Considerations :

• Operating Temperature	:	0°C~60°C Wide temperature solution by request
• Storage Temperature	:	-10°C~70°C
• Operating Humidity	:	95%RH ±3%

I/O Connectors :

• Back Panel I/O Port	:	1 x Power Input (Military) 1 x USB2.0, 1 x USB3.0 1 x RS232(Default)/422/485 2 x RJ-45 1 x VGA 1 x RS232 (Optional)

Order Information (Optional) :

Touch	:	5 Wires Resistive / 5 Wire Resistive with EMI Coating
Glass	:	EMI Coating Glass (Default AR Glass)
OS	:	Windows Embedded Standard 7 Windows Embedded 8 Standard Windows Embedded 8.1 Industry Windows 10 IoT Enterprise
Storage	:	mSATA SSD up to 256GB
RAM	:	SO-DIMM DDR3 1666, max up to 8GB
Power	:	Optional isolation 9~36V DC in

Accessories :

- Military Grade MIL-DTL-38999/1 Power Cord
- Driver & Manual CD

Environmental(MIL-STD 810F/G Compliance)

Vibration	:	MIL-STD-810F/G Method 514.5
Humidity	:	MIL-STD-810F/G Method 507.4
Transit Drop	:	MIL-STD-810F/G Method 516.5

Environmental(MIL-STD 461E/F Compliance)

RE	:	RE 101 / RE 102
CE	:	CE 101 / CE 102
Optional with EMI Glass / Touch		
CS	:	RS101 / RS103
CS	:	CS 101 / CS 106 / CS 109 / CS 114 CS 115 / CS 116

* If you require external test report, Winmate will charge NRE fee.