R20IK3S-RKA2ML, 20.1-inch Military Rack Panel PC

Intel Kaby Lake Platform

Winmate's Military Series of console rack Panel PCs are durable PCs that have undergone rigorous testing to ensure safety and performance that goes beyond standard military compliance. These PCs include MIL-DTL-38999 type I connectors and are built to survive drops, shocks, liquid spills, vibrations, dust and extreme temperatures; our specially designed military line of products have also been tested for MIL-STD-810G environmental and MIL-STD 461F EMC standards. The rugged, high-resolution display offers optimized visibility with optical bonding and easy-to-use OSD front panel controls. The advanced computing platform enables faster searches and real-time positioning information, providing rapid response capabilities that are incomparable to a standard PC.



Highlights

- 20.1" LCD 1600x1200
- Inte Core™ i5-7200U 2.5GHz Processor
- Anti-Corrosion Housing / Fanless
- Compliant with MIL-STD-810G/F, MIL-STD-461E/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)



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Display Specification

1600 x 1200 Resolution Contrast Ratio 1400:1 Brightness 300 nits -85~85; -80~80 Viewing Angle Max Colors 16.7M

System Specification

Intel® Core i5-7200U Kaby Lake 2.5GHz

Intel® SoC Integrated System Chipset

System Memory 1 x DDR4-2133 , Default 4GB (Max 16GB) 1 x M.2 B Key SATA III , Default 64GB Storage

BIOS Insyde H20 BIOS

Realtek ALC283 HD Audio Codec Audio

Intel Gigabit-LAN Controller I211AT + PHY I219LM Network

Operating System Windows 10 IoT Enterprise

Interface

Ethernet LAN 2 x RJ-45

1 x RS232/422/485 (Default RS232) COM

1 x RS232 (optional)

USB 2 x USB 3,0

Power Input 1 x Power Input (Military Grade Connector)

HMDI 1 x HDMI

Audio

Speaker 2 x speaker

Keyboard and Input

Physical Buttons 8 Key OSD Control Pad:

- Power, Brightness DOWN, Brightness UP,

Night, Day, Auto / Manual, Reset, Lock

LED Indicators 3 x LED Indicator

- Power status, HDD Status, Lock Status

5 Wire Resistive Touch

Mechanical Specifications

482.6 x 399.3 x 85 mm Dimensions Cutout 449 x 380 mm

11 kg Weight

Metal Housing with Aluminum Bezel Housing Mounting Rack Mount / Panel Mount / VESA Mount

Power Management

AC 110~240V (Default) DC 9~36V (Optional)

Power Consumption

Environment

Operating Temperature -20° C $\sim 60^{\circ}$ C Storage Temperature -30°C ~ 70°C

Operating Humidity 95%RH ±3% (non-condensing)

Standards and Certification

MIL-STD 461E/F (Compliance)

RE101 / RE102 CE101 / CE 101 CE Optional with EMI Glass / Touch RS101 / RS 103

CS101 / CS 106 / CS 109 / CS 114 / CS 115 / CS 116

MIL-STD 810F/G (Compliance)

MIL-STD-810F/G Method 514.5 Vibration Humidity MIL-STD-810F/G Method 507.4 Transit Drop MIL-STD-810F/G Method 516.5 High Temperature Storage: MIL-STD-810F/G Method 501.4

Operation: MIL-STD-810F/G Method 501.4 Low Temperature

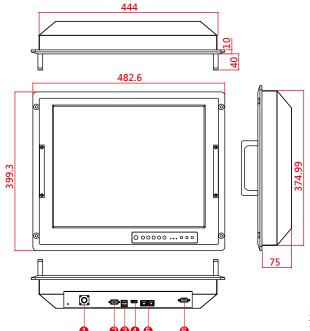
Storage: MIL-STD-810F/G Method 502.4 Operation: MIL-STD-810F/G Method 502.4

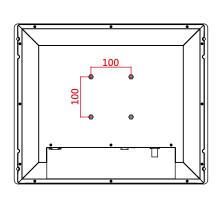
Accessories

Standard Accessories

1 x Military Power cord

Drawing





1. Power in (MIL-DTL-38999/1) 2.RS232/422/485 (Default RS232)

5.LANx2 3.1 x USB 2.0 / 1 x USB 3.0 6. RS-232(Optional)

4.HDMI

