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
- Intel® 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

 Resolution
 1600 x 1200

 Contrast Ratio
 1400:1

 Brightness
 300 nits

 Viewing Angle
 -85~85; -80~80

 Max Colors
 16.7M

System Specification

CPU Intel® Core i5-7200U Kaby Lake 2.5GHz

System Chipset Intel® SoC Integrated

System Memory 1 x DDR4-2133 , Default 4GB (Max 16GB)
Storage 1 x M.2 B Key SATA III , Default 64GB
BIOS Insyde H20 BIOS

Audio Realtek ALC283 HD Audio Codec

Network Intel Gigabit-LAN Controller I211AT + PHY I219LM

Operating System Windows 10 IoT Enterprise

Interface

Ethernet LAN 2 x RJ-45

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

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

Touch 5 Wire Resistive

Mechanical Specifications

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

Weight 11 kg

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

Power Management

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

Power Consumption 60W

Environment

Operating Temperature $\,\,$ 0°C ~ 60 °C Wide temperature solution by request

Storage Temperature $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$

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

Standards and Certification

MIL-STD 461E/F (Compliance)

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

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

MIL-STD 810F/G (Compliance)

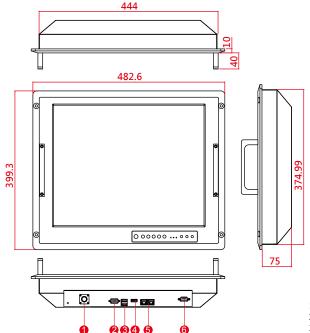
Vibration MIL-STD-810F/G Method 514.5 Humidity MIL-STD-810F/G Method 507.4 Transit Drop MIL-STD-810F/G Method 516.5

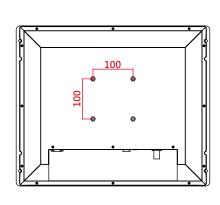
Accessories

Standard Accessories

1 x Military Power cord

Drawing





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)

