# R19IT3S-MLA3-89

## 19" Intel® Core™ i7-1165G7 Defence Console Rack Panel PC



### KEY FEATURES

- 19" SXGA TFT LCD
- Intel® Core i7-1165G7 2.8GHz (up to 4.7GHz) Processor
- Anti-Corrosion Housing / Fanless
- Compliant with MIL-STD-810G
- Flush Rack / Rack Mount Mechanical Design (9U)
- Convenient On-Screen Display Controls
- AC 110~240 V Power input default
- Isolation DC 9~36 V Power input (Optional)
- Built-in Light Sensor for auto brightness control
- Defence Grade Power & Signal Connector (MILDTL38999/1 & 38999/3)



## OVERVIEW



### Reliable Computing Tailored for Defence Applications

To meet the defence and defense regulatory requirements, all Winmate&#39;s Defence Console Rack Panel PCs are built and tested according to MIL-STD-810G environmental and MIL-STD 461F EMC standards. Winmate performs in-house reliability tests to ensure optimal performance in harsh defence environments.



### Command Center Focused Design

Increase the efficiency of the command center and control room personnel. Built your ergonomic command console that complies with defence and defense precise needs with Defence Console Rack Panel PCs that feature rack mount mechanical design (8U).



### Defence &ndash; Grade Connectors for Compatibility with Existing Defence Systems

The Defence Console Rack Panel PCs come with a MIL-DTL-38999 type I power input connector. For selected models, MIL-DTL-38999 type III input/ output connectors &ndash; high-performance cylindrical connector for cable-to-panel applications in the defence, air traffic control, or other mission-critical situations. Compatible with existing defence systems.



### Ultimate Touch Experience and Convenient On-Screen User Controls

The Defence Console Rack Panel PCs feature a user-friendly touchscreen and physical OSD buttons for fast access to the central control located on the front panel.



### Auto Brightness Control with Built-in Light Sensor

The Defence Console Rack Panel PCs feature a built-in light sensor for auto-brightness control. The screen brightness effortlessly changes with the lighting conditions throughout the day.
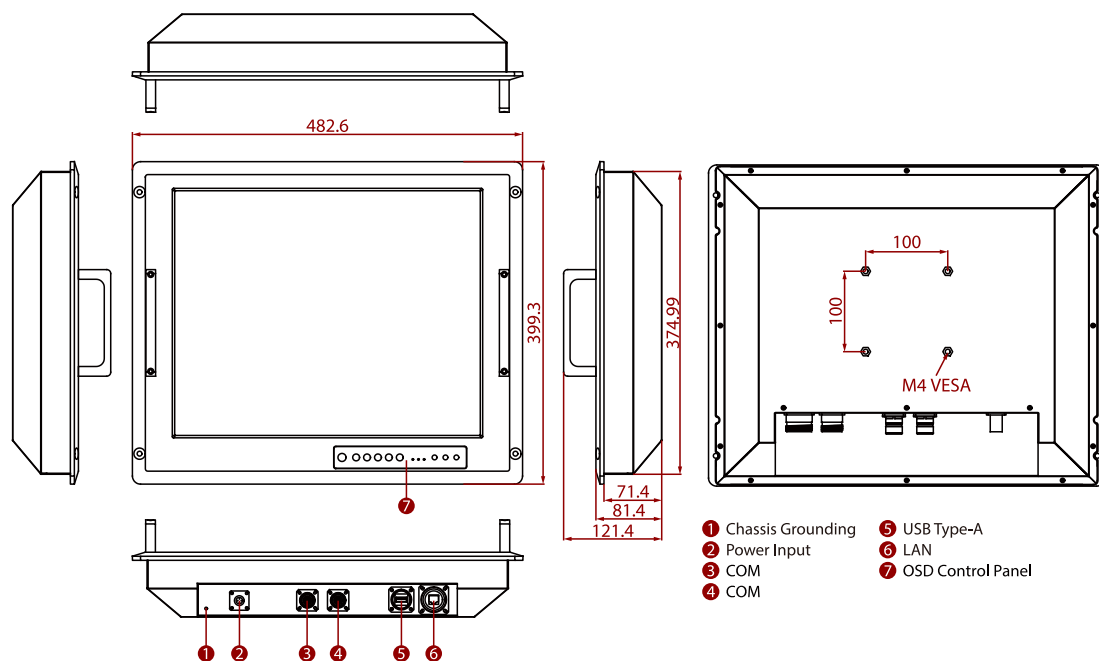
## SPECIFICATIONS

| Display | | | |
|---|---|---|---|
| **Resolution** | 1280x1024 | **Size** | 19.0 inches |
| **Contrast Ratio** | 1000:1 | **Panel Brightness** | 350.0 nits |

| | | | |
|---|---|---|---|
| **View Angles** | 85,85,80,80 | **Active Area** | 376.32x301.06 mm |
| **Touch / Glass** | AR Protection Glass<br>5 Wires Resistive Touch (Optional)<br>5 Wire Resistive with EMI Mesh Filter (Optional)<br>EMI Glass (Optional) | | |

## System Specification

| | | | |
|---|---|---|---|
| **Processor** | Intel Core i7-1165G7 2.8GHz (up to 4.7GHz) | **Memory** | 1 x SO-DIMM, DDR4 2400 MHz, 4GB<br>8GB (Optional)<br>16GB (Optional)<br>32GB (Optional) |
| **Storage** | 1 x M.2 M-Key 2280 NVMe SSD, 128GB<br>256GB (Optional)<br>512GB (Optional)<br>1TB (Optional)<br>2TB (Optional)<br>4TB (Optional) | **Ethernet controller** | 2 x Intel® Ethernet Controller |
| **Operating System** | Windows 10 IoT Enterprise (64 bit) (Optional)<br>Windows 11 IoT Enterprise SAC (64 bit) (Optional)<br>Linux Ubuntu 22.04<br>(Optional) | | |

## Environment

| | | | |
|---|---|---|---|
| **Operating Humidity** | 10% to 95% RH | **Operating Temperature** | -20°C~60°C |
| **Storage Temperature** | -30°C~70°C | | |

## Compliance

| | | | |
|---|---|---|---|
| **MIL-STD 461E/F/G** | RE101 / RE102<br>CE101 / CE102<br>CS118<br>with EMI Glass / Touch(Optional)<br>RS101 / RS 103<br>CS101 / CS 106 / CS 109 / CS 114 / CS 115 / CS 116 | **MIL-STD 810G/H** | Vibration Method 514.6<br>Humidity Method 507.5<br>Transit Drop Method516.6 |

## Certification

| | |
|---|---|
| **Certification** | CE, FCC |

## IO Ports

| | | | |
|---|---|---|---|
| **USB Port** | 1 x USB 2.0 A Type (MIL-DTL-38999/3) | **Serial Port** | 2 x RS232 (MILDTL38999/3) |
| **LAN** | 1 x LAN (MIL-DTL-38999/3) | | |

## Mechanical

| | | | |
|---|---|---|---|
| **Dimension** | 482.6 x 399.3 x 81.4 mm | **Mounting** | VESA Mount/ Rack Mount |
| **Enclosure** | Metal Housing with Aluminum Bezel | **Cooling System** | Fanless Design |

## Accessory

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|---|---|
| **Accessory** | User Manual (Hardcopy)<br>CD-ROM with Driver Utility<br>Power Cord MIL-DTL-38999/1<br>RS232 Cable MILDTL38999/3 |

## Power

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|---|---|
| **Power Rating** | AC 100~240V, Universal, ±10%<br>DC 9~36V, ±10% (Optional) |

## Control

| | |
|---|---|
| **Button** | 8 Key OSD Control Pad:<br>Power, Brightness DOWN, Brightness UP,<br>Night, Day, Auto / Manual, Reset, Lock |

**DIMENSIONS**   UNIT:MM

| Number | Label | Number | Label |
|--------|-------|--------|-------|
| ❶ | Chassis Grounding | ❺ | USB Type-A |
| ❷ | Power Input | ❻ | LAN |
| ❸ | COM | ❼ | OSD Control Panel |
| ❹ | COM | | |

## 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.

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