# R21L100-MLM1FP

## 21.3" PCAP Rack Mount Defence Display

## KEY FEATURES

- 21.3” 1600x1200 resolution,PCAP Rack Mount Defence Display
- PCAP multitouch screen
- Compliant MILSTD 810G/ MILSTD 461E
- Rack mount mechanical design, supports VESA mount
- Defencegrade power connector (MILDTL38999/1)
- AC 100~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)
- Convenient onscreen display controls

## INTRODUCTION

Winmate R21L100-MLM1FP is a 21.3-inch PCAP Rack Mount Defence Display engineered for defense operations, field command, and mission-critical mobility. It combines 21.3-inch display with 1920x1080 resolution, 21.3” 1600x1200 resolution,PCAP Rack Mount Defence Display, and PCAP multitouch screen to support reliable operation in harsh industrial environments. With Compliant MIL-STD 810G/ MILSTD 461E, the R21L100-MLM1FP helps OEMs, system integrators, and project teams deploy durable, configurable solutions for demanding field, factory, and mission-critical applications.

## SPECIFICATIONS

### Display

| | | | |
|---|---|---|---|
| **Touch / Glass** | Projected Capacitive Multi Touch Screen (Default)<br>PCAP with With ITO Film (Optional) | **Resolution** | 1600x1200 |
| **Size** | 21.3 inches | **Contrast Ratio** | 1800:1 |
| **Panel Brightness** | 1000.0 nits | **Display Color** | 16.8M Colors |
| **View Angles** | 89,89,89,89 | **Active Area** | 432x324 mm |

### Environment

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|---|---|---|---|
| **Operating Humidity** | 10% to 95% RH | **Operating Temperature** | 0~50°C |
| **Storage Temperature** | -10°C~60°C | **TEMPEST** | USA: NSA NSTISSAM TEMPEST/1-92 (optional)<br>NATO: NATO SDIP-27 (optional) |

### Compliance

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|---|---|---|---|
| **MIL-STD 461G** | USA MILSTD461G CE101, CE102, RE101, RE102, CS118 (Default)<br>MILSTD461G CS101, CS106, CS109, CS114, CS115, CS116, RS101, RS103 (Optional)<br><br>NATO STANAG 4370/AECTP501 NCE01, NCE02, NRE01, NRE02, NCS12 (Default)<br>STANAG 4370/AECTP501 NCS01, NCS07, NCS08, NCS09, NRS01, NRS02 (Optional) | **MIL-STD 810H** | USA: MIL-STD-810H (default): Vibration Method 514.8<br>Humidity Method 507.6<br>Transit Drop Method516.8<br><br>NATO (optional): Vibration Test STANAG 4370/AECTP-401<br>Shock STANAG 4370/AECTP-402 Procedure I<br>Drop and Topple Test STANAG 4370/AECTP-404 |

### Certification

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

### IO Ports

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|---|---|---|---|
| **USB Port** | 1 x USB for Touch Screen | **Video** | 1 x VGA<br>5 x BNC (R,G,B,H,V)<br>1 x DVI-D |

## Mechanical

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|---|---|---|---|
| **Dimension** | 539.1 x 430.3 x 71.4 mm | **Mounting** | Rack mount/VESA mount |
| **Enclosure** | Metal Housing with Aluminum Bezel | **Cooling System** | Fanless Design |

## Accessory

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|---|---|
| **Accessory** | 1 x User Manual(Hardcopy)<br>1 x Power Cord MIL-DTL-38999/1<br>1 x VGA Cable<br>1 x DVI Cable<br>1 x VGA to 5 BNC Shielding Cable |

## Power

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

## Control

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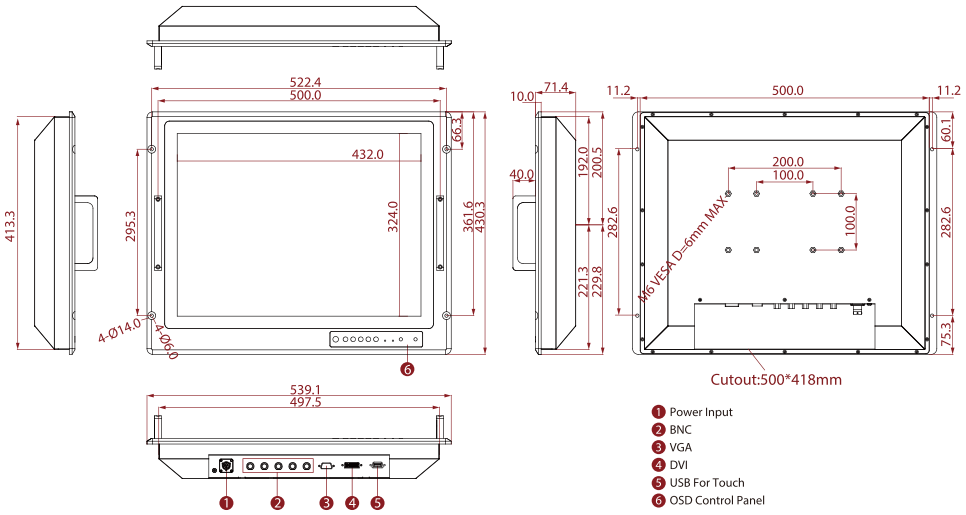
|---|---|
| **Button** | 6 Key OSD Control Pad:<br>Power/ Brightness DOWN, Brightness UP/<br>Night, Day/ Exit, Auto/ Menu |

## DIMENSIONS UNIT:MM




## NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. If you require an external test report, Winmate will charge an NRE fee.
3. Please contact our sales representative if you need further product information.
4. All specifications are subject to change without prior notice.
5. 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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