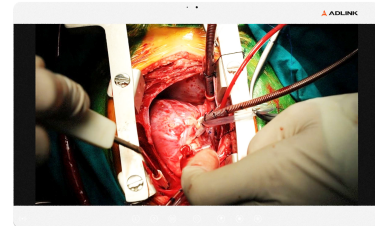


# MLC-S Series

Versatile All-in-One Medical Panel Computer  
 Family with 12th/13th Generation Intel®  
 Core™ Processor Performance



## Features

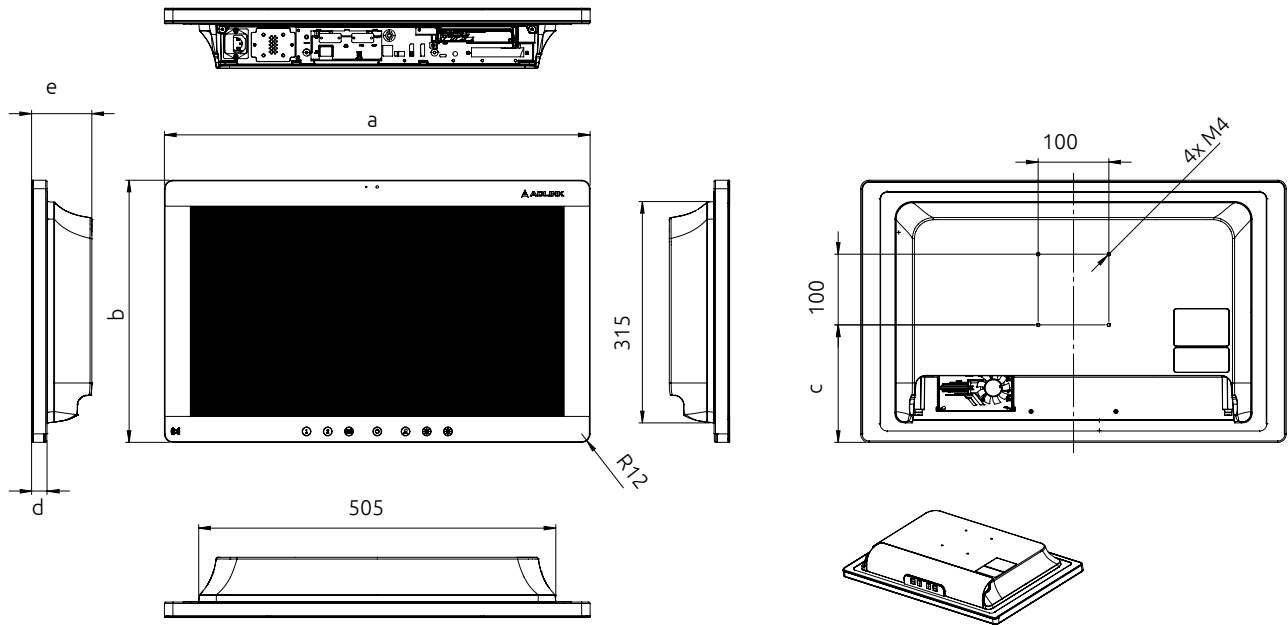
- Powerful 12th/13th Gen Intel® Core™ i3 / i5 / i7 / i9 processors
- 21.5" or 23.8" Full HD display with PCAP multi-touch touchscreen and anti-glare coated safety glass for unsurpassed visualization capabilities
- 7 illuminated soft-touch function keys on the front glass
- Edge-to-edge glass surface and patent pending screwless design allow for easier and faster cleaning and disinfection procedures
- Fully sealed aluminum housing and fan less design for high hygienic standards with IP54 rated ingress protection and anti-bacterial treatment
- PCIe x16 internal expansion slots for storage, networking and processing cards

| MLC-S Series    |  |   |   |
|-----------------|--|---|---|
| System          |  | Electrical  |   |
| CPU             | 12th/13th Gen. Intel® Core™ i3, i5, i7, i9 processor |   |   |
| RAM             | Up to 64GB DDR5 4800                                 |   |   |
| Storage         | M.2 2280 NVMe and 2.5"SATA SSD/HDD options*          |   |   |
| Front Camera    | FHD resolution (1920X1080)                           |   |   |
| Audio Input     | 1x digital microphone                                |   |   |
| Interfaces      |  | Display   |   |
| Standard I/O    | Graphics Output                                      | 2x DisplayPort 1.2  |   |
|                 | LAN  | 1x 10/100/1000 Mb/s, 4kV isolated<br>1x 10/100/1000/2500 Mb/s, non-isolated             |   |
|                 | USB  | 3x USB 3.2 Gen 1<br>1x USB 3.2 Gen 1 for type-C + 2x USB 2.0                            |   |
|                 | Audio  | 1x speaker and 1x combo jack  |   |
|                 | Serial   | None  |   |
| Options         | USB  | 2x USB 2.0, 4kV isolated  |   |
|                 | Serial   | Up to 6x RS232, up to 4kV (2.5kV or 4kV)  |   |
|                 | Wi-Fi/BT   | Yes   |   |
|                 | RFID Reader  | Yes   |   |
|                 | Operation Modes                                      | Horizontal and vertical   |   |
| Expansion Slots | M.2  | 1x 2230 (PCIe x2 and USB 2.0) 1x 2280 (PCIe x4)   |   |
|                 | Mini PCIe  | 1x (PCIe x1 and USB 2.0)  |   |
|                 | PCIe   | 1x (PCIe x16 Gen 4)   |   |
| Touch Keys      | Standard power on/off                                | 1x  |   |
|                 | Touch cleaning enable/disable                        | 1x  |   |
|                 | Panel brightness increase                            | 1x  |   |
|                 | Panel brightness decrease                            | 1x  |   |
|                 | Keyboard on/off                                      | 1x  |   |
|                 | Customizable function key                            | 2x  |   |
|                 |  | Power   |   |
|                 |  | 100-240V~5A 47-63Hz (internal medical-grade PSU) or 24V DC (external medical-grade PSU) |   |
|                 |  | Viewing Angle   |   |
|                 |  | V/H: 89°/89°  |   |
|                 |  | Mechanical  |   |
|                 |  | Dimensions  | Refer to the back of this page  |
|                 |  | Weight  | 21.5": 8.9 kg; 23.8": 10.2 kg (approx.)   |
|                 |  | Housing   | Aluminum powder-coated, anti-bacterial  |
|                 |  | Mounting  | VESA 100  |
|                 |  | Environmental   |   |
|                 |  | Operating   | 0°C to +35°C / 5% to 95% rel. humidity (non-condensing)                                     |
|                 |  | Storage   | 0°C to +60°C, 5% to 95% rel. humidity (non-condensing)                                      |
|                 |  | Ingress Rating  | Water- and dust-proof front unit, IP54 for entire device                                    |
|                 |  | Standard  | Certifications (CB certified)   |
|                 |  |   | Applied standards or safety mark(s)   |
|                 |  |   | Safety Medical devices  |
|                 |  |   | IEC 60601-1:2005 +A1:2012 +A2:2020 (ed. 3.2)<br>EN 60601-1:2006 +A1:2013 +A12:2014 +A2:2021 |
|                 |  |   | EMC Medical devices   |
|                 |  |   | IEC 60601-1-2:2014 +A1:2020 (ed. 4.1)<br>EN 60601-1-2:2015 +A1:2021                         |
|                 |  | Safety IT/AV devices  |   |
|                 |  |   | IEC 62368-1 ed. 2.0 & 3.0   |
|                 |  | EMC IT/AV devices   |   |
|                 |  |   | CISPR 32/EN 55032:2015 +A11:2020 emission<br>CISPR 35/EN 55035:2017 +A11:2020 immunity      |
|                 |  | International   |   |
|                 |  |   | CE, FCC Part 15B, UL (E239251), NRTL  |

# Dimensions

## MLC-S Series

Units: mm



| Dimensions (mm) |     |     |     |    |    |
|-----------------|-----|-----|-----|----|----|
| Sizes (inch)    | a   | b   | c   | d  | e  |
| 21.5            | 551 | 342 | 152 | 22 | 85 |
| 23.8            | 602 | 371 | 166 | 22 | 85 |

# Ordering Information

|            |   |
|------------|---|
| MLC-S12-21 | 21.5" Full HD Display with 10-point multitouch, Intel® Core™ i5-12500TE, 8GB RAM, 128GB SSD |
| MLC-S12-23 | 23.8" Full HD Display with 10-point multitouch, Intel® Core™ i5-12500TE, 8GB RAM, 128GB SSD |

## Options

|                     |  |
|---------------------|--|
| 12th Gen Processors | Intel® Core™ i3-12100TE / i5-12500TE / i7-12700TE / i9-12900TE |
| 13th Gen Processors | Intel® Core™ i3-13100TE / i5-13500TE / i7-13700TE / i9-13900TE |
| DDR5-16             | 16GB RAM (total capacity)                                      |
| DDR5-32             | 32GB RAM (total capacity)                                      |
| DDR5-64             | 64GB RAM (total capacity)                                      |
| Optional Items      | RFID Reader  |
| Wi-Fi/BT Module     | WLAN module, including Bluetooth functionality                 |
| DC Kit              | 24V DC Input instead of integrated AC power supply             |
| Operating System    | Windows 10 IoT Enterprise LTSC 2021, Windows 11 IoT LTSC 24H2  |

\*For HDD and SSD storage options, please contact your ADLINK sales representative.