



# R12IM3S-PCM2-POE 12.1" ARM A53 S Series HMI Panel PC

Manufacturer part number: R12IM3S-PCM2-POE | HMI (P-CAP Touch)



Explore Winmate R12IM3S-PCM2-POE, an HMI panel PC featuring 12.1-inch display with 1024x768 resolution, IP65 for machine control and factory automation.

| Display               |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Size                  | 12.1 inches                                                                                                                         |
| Touch / Glass         | Projected Capacitive Multi Touch Screen                                                                                             |
| Resolution            | 1024x768                                                                                                                            |
| Panel Brightness      | 500.0 nits                                                                                                                          |
| Contrast Ratio        | 1000:1                                                                                                                              |
| View Angles           | 89,89,89,89                                                                                                                         |
| Active Area           | 245.76x184.32 mm                                                                                                                    |
| System Specification  |                                                                                                                                     |
| Processor             | ARM A53 (Quad Core 2.0GHz)                                                                                                          |
| Memory                | 4GB LPDDR4                                                                                                                          |
| Storage               | eMMC: Onboard 32 GB                                                                                                                 |
| Operating System      | Android 11 (Upgradeable to Android 13) (Default), Linux Yocto 5.15.47 with QT 5.15 (Optional), Linux Ubuntu Server 22.04 (Optional) |
| WLAN                  | Support (Optional)                                                                                                                  |
| BT                    | Support (Optional)                                                                                                                  |
| RFID                  | HF RFID Reader 13.56 MHz (Optional)                                                                                                 |
| Mechanical            |                                                                                                                                     |
| Dimension             | 296 x 227 x 46 mm                                                                                                                   |
| Cut out               | 282x207mm                                                                                                                           |
| Weight                | 3.4 kg                                                                                                                              |
| Mounting              | VESA Mount                                                                                                                          |
| Enclosure             | Metal Housing                                                                                                                       |
| Cooling System        | Fanless Design                                                                                                                      |
| Environment           |                                                                                                                                     |
| Operating Humidity    | 10% to 90% RH, Non-Condensing                                                                                                       |
| Operating Temperature | 0 deg C to 50 deg C                                                                                                                 |
| Storage Temperature   | -20 deg C to 60 deg C                                                                                                               |

|                      |                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shock</b>         | MIL-STD-810H Method 516.8 Procedure I                                                                                                          |
| <b>Vibration</b>     | MIL-STD-810H Method 514.8 Procedure I                                                                                                          |
| <b>IP rating</b>     | Front IP65                                                                                                                                     |
| <b>Certification</b> |                                                                                                                                                |
| <b>Certification</b> | CE, FCC                                                                                                                                        |
| <b>IO Ports</b>      |                                                                                                                                                |
| <b>USB Port</b>      | 2 x USB 2.0 Type A , 1 x Micro USB 2.0 OTG                                                                                                     |
| <b>Serial Port</b>   | 1 x RS232/422/485 (Default RS232)                                                                                                              |
| <b>LAN</b>           | 1 x LAN 10/100/1000 Mbps                                                                                                                       |
| <b>Video</b>         | 1 x Micro HDMI Output (Optional)                                                                                                               |
| <b>Audio</b>         | 2 x Speaker                                                                                                                                    |
| <b>SD Card Slot</b>  | 1 x Micro SD card slot (Max to 32GB)                                                                                                           |
| <b>Accessory</b>     |                                                                                                                                                |
| <b>Accessory</b>     | 100~240V AC to DC Adapter, Power Cord, Terminal Block to 2.50 Female Adapter Cable, Open Wire Cable with terminal block connector, VESA screws |
| <b>Power</b>         |                                                                                                                                                |
| <b>Power Rating</b>  | 12V DC with Terminal Block (Default), 9~36V (Optional)                                                                                         |
| <b>Adapter</b>       | 12V 50W                                                                                                                                        |
| <b>POE</b>           | PoE (PD): follows IEEE 802.3at (25 W)                                                                                                          |