

# IM30

## A53 Quad-core ARM Embedded Board



### KEY FEATURES

- 3.5" Form Factor (146 mm x 102 mm) ARM Embedded Board
- A53 Quad-core 2.0 GHz
- 4GB LPDDR4, 32GB eMMC
- Android 11
- Integrated LVDS, eDP (Optional)
- Rear IO Supports 1 x COM, 2 x USB 2.0, 1 x Micro USB, 1 x LAN ,1 x SD slot

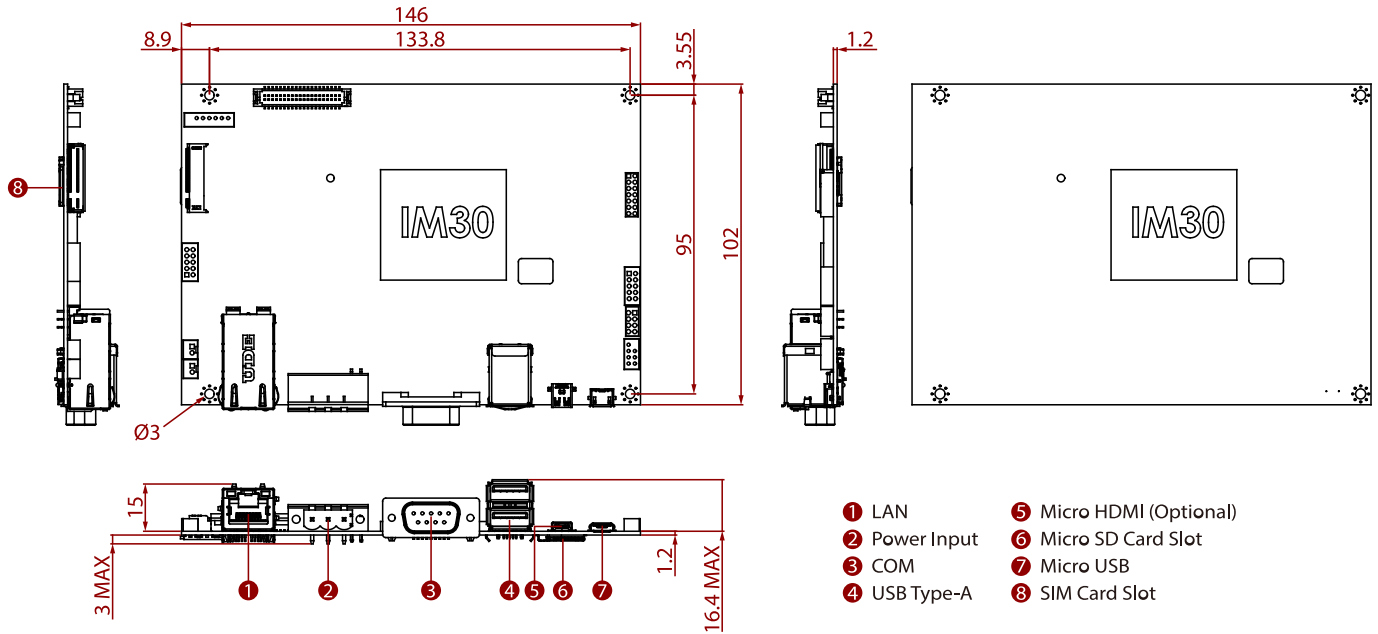


### SPECIFICATIONS

System Specification			
<b>Processor</b>	ARM A53 Quad Core 2.0GHz	<b>Memory</b>	4GB LPDDR4
<b>Storage</b>	32GB eMMC	<b>Operating System</b>	Android 11
<b>WLAN</b>	Wi-Fi a/b/g/n/ac (Optional)	<b>BT</b>	Support (Optional)
<b>WWAN</b>	4G/LTE (Optional)		
IO Ports			
<b>Power Input</b>	1 x 3-Pin Terminal Block, 12V DC	<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	<b>SD Card Slot</b>	1 x Micro SD card slot (Max to 32GB)
<b>SIM Card Slot</b>	1 x Micro SIM Card Slot	<b>Video</b>	1 x Micro HDMI Output (Optional)
<b>LAN</b>	1 x RJ45, Optional PoE(PD, 802.3AT)		
Internal IO Ports			
<b>Power output</b>	1 x 5V output (2 Pin Wafer) 1x 3.3V output (2 Pin Wafer)	<b>USB</b>	4 x USB 2.0 (2x4 Wafer/per) 2 x USB 2.0 for Touch (FFC Connector)
<b>UART</b>	1 x 6 Pin for UART 1 x 6 Pin for Debug	<b>Serial port</b>	1 x RS232/422/485 (2x5 Wafer)
<b>Display</b>	1 x LVDS (DF13/FPC) 1 x EDP (15 Pin Wafer)	<b>Backlight</b>	1 x Backlight wafer(7 Pin)
<b>WWAN Module Connector</b>	1x M.2 Key-B USB	<b>DIDO</b>	1 x 14 Pin DIDO (6 DI, 6 DO, GND, 5V)
<b>OSD</b>	1 x GPIO for 5 key OSD (6 Pin Wafer) 1 x GPIO For Membrane OSD (2x5 Wafer)	<b>Speaker</b>	2 x Speaker (L/R, 2 Pin Wafer)
<b>Backup battery</b>	1 x RTC Battery	<b>Microphone</b>	2 x DMIC (4 Pin Wafer/Per) 1 x Analog MIC (2 Pin Wafer)
<b>CANBus</b>	1 x 4 Pin Wafer CANBus With Isolation (CANH, CANL, 5V)	<b>I2C</b>	1 x I2C
<b>ANT</b>	4 x ANT (Wi-Fi, BT, NFC)		
Certification			
<b>Certification</b>	CE, FCC		
Mechanical			
<b>Dimension</b>	146 x 102 mm		
Environment			

<b>Operating Humidity</b>	95% RH, (non-condensing)	<b>Operating Temperature</b>	-20°C to 60°C
<b>Storage Temperature</b>	-25°C to 65°C		
<b>Accessory</b>			
<b>Accessory</b>	Manual		

## DIMENSIONS UNIT:MM



## 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.