

# EACIM20

## A53 Quad-core Industrial IoT Gateway











#### **KEY FEATURES**

- A53 Quad-core 2.0 GHz
- Fanless cooling system Industrial IoT Gateway
- 4GB LPDDR4, 32GB eMMC
- Compact size 100 x 70 x 31 mm (w/o mounting bracket)
- Various mounting options: desk, wall, VESA, DINRail
- Microsoft Azure Certified for IoT
- Support Android or Linux operating system

#### INTRODUCTION

Winmate ARM Box PC Series offers a compact, fanless computing solution powered by efficient ARM processors, ideal for industrial automation, monitoring, and IoT applications. Designed with rugged durability and a wide operating temperature range, it thrives in harsh environments like manufacturing, warehouses, and outdoor setups. Featuring versatile connectivity options, including HDMI, USB, Ethernet, and CANBus, it ensures seamless integration with other devices. With support for Android or Linux, the ARM Box PC delivers reliable performance, long-term durability, and flexible mounting options to meet diverse industrial needs.

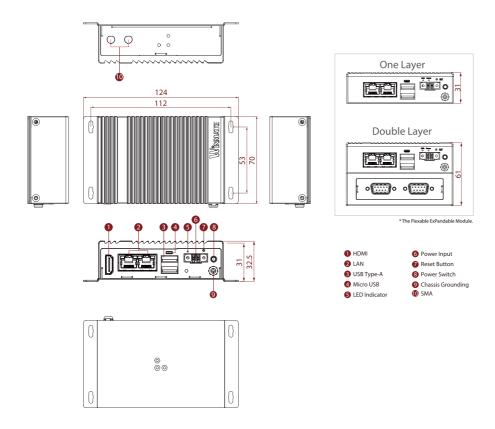
#### SPECIFICATIONS

System Specification					
Processor	ARM A53 (Quad Core 2.0GHz)	Memory	4GB LPDDR4		
Storage	eMMC: Onboard 32 GB	Security	SOTI MobiControl Compliance		
Operating System	Android 11 (Upgradeable to Android 13) Linux Yocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu Server 22.04 (Optional)	WLAN	Support (Optional)		
BT	Support for Android (Optional)	WWAN	4G/LTE (Optional)		
Expansion Port	EACWSLT-231 3-port RS232/422/485 w/ isolation EACWSLT-232 16-Channel Digital I/O w/ isolation EACWSLT-233 2-port CANBUS w/ isolation EACWLST-234 3-port USB 2.0 EACWLST-235 2-port RS232/422/485 w/ isolation				
Mechanical					
Dimension	100 (W) x 70 (H) x 31(D) mm(One layer) 100 (W) x 70 (H) x 61(D) mm(Double layer)	Weight	0.4 kg (One layer), 0.5 kg (Double layer)		
Mounting	Desk mounting Wall mounting (Optional) VESA mounting (Optional) DIN-Rail mounting (Optional)	Cooling System	Fanless Design		
Environment					
Operating Humidity	30% to 90% RH, Non-Condensing	Operating Temperature	0°C to 55°C		
Storage Temperature	-15°C to 70°C	Shock	Operating, IEC 60068-2-27		
Vibration	Operating, IEC 60068-2-64	IP rating	IP30		



Certification				
Certification	CE, FCC Microsoft Azure Certified for IoT			
IO Ports				
Power Input	1 x 9~36V DC, 2-Pin Terminal Block	USB Port	2 x USB2.0 (Type-A) 1 x USB2.0 OTG (Micro USB), support Android Debug Bridge (adb)	
Video	1 x HDMI (Up to 1080p/30Hz) (Optional)	Expansion Port	1 x M.2 slot 2 x USB Wafer	
LAN	2 x Giga LAN RJ45 Connector for Linux 1 x Giga LAN RJ45 Connector for Android	Indicator	1 x LED Indicator for power	
Control				
Button	1 x Power Button 1 x Reset Button			
Accessory				
Accessory	Terminal Block 2 pin to 2.5Ø Female Adapter Cable Quick Start Guide Open Wire Cable WLAN External Antenna*2 (For WLAN sku) WWAN External Antenna*2 (For WWAN sku) BT External Antenna*1 (For BT sku)	Optional Accessory	AC to DC Adapter 12V/36W (Optional) VESA Mount Kit (Optional) DIN Rail Mount Kit (Optional) Micro USB to Type A Cable (Optional)	
Power				
Power Rating	9V~36V DC, 2-Pin Terminal Block	Adapter	12V 36W (Optional)	
Ordering Inform	nation			
Option	EACIM20-100 Standard SKU EACIM20-101 with WLAN and BT SKU (Optional) EACIM20-102 with WWAN SKU (Optional) EACIM20-103 with WLAN, BT and WWAN SKU (Optional) EACWSLT-231 3-port RS232/422/485 w/ isolation (Optional) EACWSLT-232 16-Channel Digital I/O w/ isolation (Optional) EACWSLT-233 2-port CANBUS w/ isolation (Optional)			

#### DIMENSIONS UNIT:MM



EACWSLT-234 4-port USB 2.0 (Optional)
EACWSLT-235 2-port RS232/422/485 w/ isolation (Optional)

### 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. The Android OS option of EACIM20 only supports
- 1 x LAN.
- 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.

  5. Default resolution of HDMI:1280x800 with 160 DPI.

  6. The power key is only available in Android operating system.