

IQ30

Qualcomm Single Board Computer



KEY FEATURES

- 3.5" Form Factor (146 mm x 102 mm)
- Qualcomm® Snapdragon™ 660 octa-core, 2.2 GHz CPU
- Integrated LVDS, eDP (Optional)
- 3GB LPDDR4 (Optional 4GB), 32GB eMMC
- Rear IO Supports 1 x COM, 2 x USB 2.0, 1 x USB Type C, 1 x LAN, 1 x SD slot
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INTRODUCTION

Winmate ARM Embedded Board Series delivers high-performance, low-power solutions for diverse embedded applications. Featuring ARM-based processors such as Cortex-A53, Cortex-A9, and Qualcomm® Snapdragon™, these 3.5" form factor boards provide scalability and reliability. With configurations supporting up to 4GB LPDDR4 memory, multiple I/O interfaces, and optional features like PoE and eDP, they are ideal for industrial automation, IoT devices, medical equipment, and machine vision. Compatible with Linux, Android, and Ubuntu, the series ensures seamless integration for efficient and innovative system designs.

SPECIFICATIONS

System Specification

Processor	Qualcomm® Snapdragon™ 660 (Octa-Core 2.2 GHz)	Memory	3GB LPDDR4
Storage	eMMC: Onboard 32 GB	Operating System	Android 9.0
WLAN	Support	BT	Support
WWAN	4G/LTE (Optional)		

IO Ports

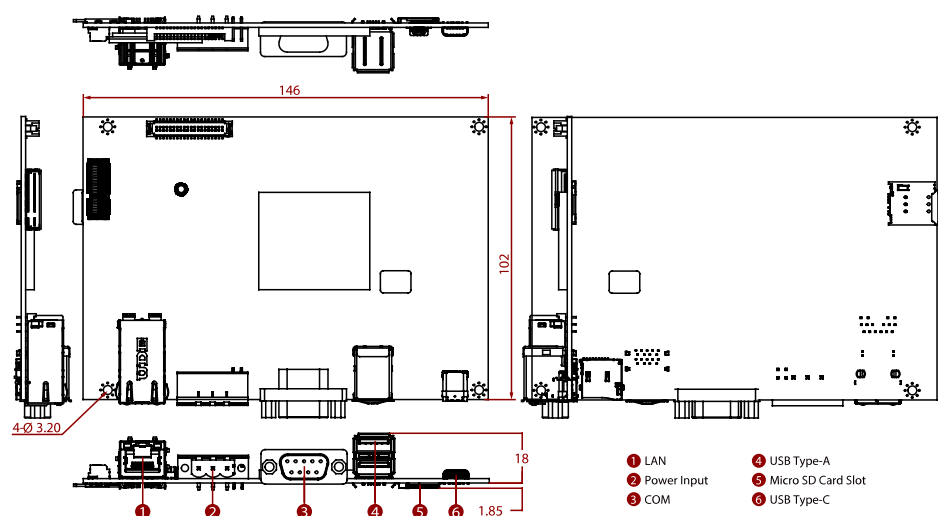
Power Input	1 x 3-Pin Terminal Block, 12V DC	USB Port	2 x USB 2.0 Type A 1 x USB Type C
Serial Port	1 x RS232/422/485	SD Card Slot	1 x Micro SD card slot (Max to 32GB)
SIM Card Slot	1 x Micro SIM Card Slot	Video	1 x Micro HDMI (Optional)
LAN	1 x RJ45, Optional PoE(PD, 802.3AT)		

Internal IO Ports

Power output	1 x 5V output (2 Pin Waffer) 1x 3.3V output (2 Pin Waffer)	USB	3 x USB 2.0 (2x4 Waffer/per) 2 x USB 2.0 Touch (FFC Connector)
UART	2 x Light BAR / 1x4-pin with UART 1 x UART (TX, RX, 3.3V, GND)	Serial port	1 x RS232/422/485 (2x5 Waffer) 1 x RS232/422/485 (2x5 Waffer, 5V) (Optional)
Display	1 x LVDS (DF13/FPC) (Optional) 1 x EDP (15 Pin Waffer) (Optional)	Backlight	2 x Backlight waffer(5V/3.3V)
WWAN Module Connector	1 x M.2 (PCIe Signal With USB)	DIDO	1 x 14 Pin DIDO (6 DI, 6 DO, GND, 5V)
OSD	1 x GPIO for 5 key OSD (6 Pin Waffer) 1 x GPIO For Membrane OSD (2x5 Waffer)	Speaker	2 x Speaker (L/R, 2 Pin Waffer)
Backup battery	1 x RTC Battery	Microphone	2 x DMIC (4 Pin Waffer/Per) 1 x Analog MIC (2 Pin Waffer)
BIOS debug	1 x Debug Port (6 Pin Waffer)	CANBus	1 x 4 Pin Waffer CANBus With Isolation (CANH, CANL, 5V) (Optional)

I2C	1 x I2C	ANT	3 x IPEX connector (Wi-Fi, BT, NFC)
Switch	1 x SW1 (SW Burning Switch)		
Certification			
Certification	CE, FCC		
Mechanical			
Dimension	146 x 102 mm		
Environment			
Operating Humidity	95% RH, Non-Condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-25°C to 65°C		
Accessory			
Accessory	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.