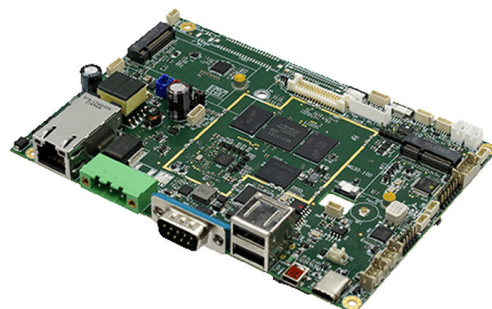


MG30 ARM A78 + A55 Industrial Embedded Motherboard

Manufacturer part number: MG30 | Embedded Board



Explore Winmate MG30, an industrial embedded board featuring 3.5-inch form factor for OEM equipment design and embedded control.

System Specification	
Processor	ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz
Memory	4GB LPDDR4
Storage	Onboard 32 GB
Operating System	Android 13 (Default), Linux Yocto 5.10.104 with QT 5.15 (Optional), Linux Ubuntu 22.04 (Optional)
IO Ports	
USB Port	2 x USB 2.0 Type A , 1 x USB 2.0 Type C (OTG)
Serial Port	1 x RS232/422/485
LAN	1 x RJ45 (Default), PoE(PD, 802.3AT) (Optional)
Video	1 x Micro HDMI (Optional)
SD Card Slot	1 x Micro SD card slot (Max to 32GB)
SIM Card Slot	1 x Micro SIM Card Slot
Expansion Port	1 x M.2 2230 E-key Slot (for Wi-Fi Module), 1 x M.2 3042 B-key Slot (for WWAN Module)
Power Input	1 x 3-Pin Terminal Block, 12V DC
Internal IO Ports	
Power output	1 x 5V output (2 Pin Wafer), 1x 3.3V output (2 Pin Waffer),
USB	4 x USB 2.0 (2x4 Waffer/per), 2 x USB 2.0 for Touch (FFC Connector)
UART	1 x 6 Pin for UART, 1 x 6 Pin for Debug
Serial port	1 x RS232/422/485 (2x5 Waffer)
Display	1 x LVDS (DF13) (Default), 1 x LVDS (FPC) (Optional), 1 x EDP (30 Pin Waffer) (Optional)
Backlight	1 x Backlight wafer(7 Pin)
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
Audio	1 x DMIC (4 Pin Waffer/Per), 1 x Analog MIC + Line out (5 Pin Waffer)
LED	2 x 4pin(1x4) for LED light bar indicator
I2C	2 x I2C

Certification	
Certification	CE, FCC
Mechanical	
Dimension	146 x 102 mm
Environment	
Operating Humidity	95% RH, Non-Condensing
Operating Temperature	-20 deg C to 60 deg C
Storage Temperature	-25 deg C to 65 deg C
Accessory	
Accessory	Manual