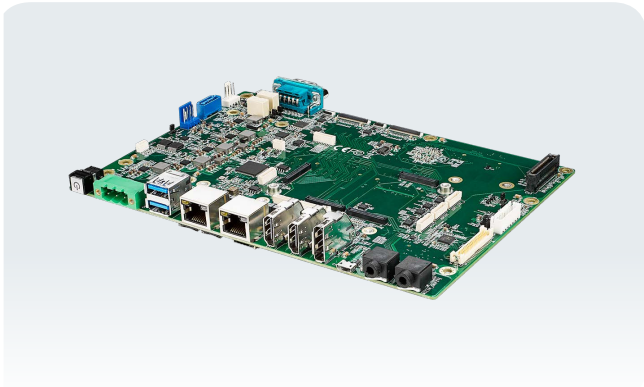


ESOM-MT-1200-CB

MediaTek Genio 1200 Carrier Board



Features

- Compatible with ESOM-MT-1200 System on Module
- Support Digital Display, DisplayPort, LVDS, and MIPI DSI Interface
- Support Three 4-lane CSI-2 Camera Interface
- 2 LAN, 2 USB 3.0, 1 COM RS-232/422/485, 2 RS-232
- M.2 and Mini PCIe with dual SIM for 5G/4G/LTE/Wifi/BT/GPRS/UMTS
- 2 Audio Jack for Mic-in, Line-out



Specifications

System	
Processor	MediaTek Genio 1200 Processor with Quad-core Cortex-A75 @2.2GHz and Quad Cortex-A55 @2.2GHz
Memory	8GB LPDDR4X SDRAM
eMMC	64GB eMMC
Flash	8Mb NOR Flash
OS	<ul style="list-style-type: none"> ▪ Android 11 ▪ Linux Yocto 3.1
Graphics	
Display	Supports dual independent display: <ul style="list-style-type: none"> ▪ 1 Digital Display TX : 4096 x 2160 @60Hz ▪ 1 Digital Display RX : 4096 x 2160 @60Hz ▪ 2 DisplayPort TX : 4096 x 2160 @60Hz ▪ 2 MIPI DSI : 3840 x 2160
Camera	<ul style="list-style-type: none"> ▪ 1 4-lane MIPI CSI-2 Connector ▪ 2 4-lane MIPI CSI-2 by B2B Connector
Ethernet	
LAN 1	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
LAN 2	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
Audio	
Audio Interface	2 Audio Jack for Mic-in, Line-out
Power	
Power Input	12V DC-in
I/O Interface	
External	<ul style="list-style-type: none"> ▪ Power Button with LED ▪ 1 2-pin DC-in Connector ▪ 2 RJ45 Connector ▪ 2 USB 3.0 Type A ▪ 2 Digital Display (1 TX, 1 RX) ▪ 1 DisplayPort (TX) ▪ 1 COM RS-232/422/485 Connector ▪ 1 Micro USB 2.0 OTG Port ▪ 1 Micro USB 2.0 Debug Port ▪ 2 Nano SIM ▪ 2 Audio Jack

Internal I/O	<ul style="list-style-type: none"> ▪ 4 board to board Connector ▪ 1 LVDS Connector ▪ 1 LVDS Backlight Connector ▪ 2 MIPI DSI Connector ▪ 1 MIPI CSI-2 B2B Connector ▪ 1 MIPI CSI-2 Connector ▪ 1 SATA Data Connector ▪ 1 SATA Power Connector ▪ 1 M.2 Key B 2280 Socket ▪ 1 M.2 Key E 2230 Socket ▪ 3 Full-size mini PCIe Socket ▪ 1 USB 2.0 Header ▪ 1 Micro SD Slot ▪ 1 GPIO Connector ▪ 2 RS-232 Header ▪ 2 SPI & I2C Header ▪ 1 I2S IN Header ▪ 1 I2S OUT Header ▪ 1 DMIC Header ▪ 1 Fan Connector ▪ 1 RTC Battery Socket ▪ 1 Miscellaneous Header (6 AUXADC, 1 PWM)
Expansion	
M.2	<ul style="list-style-type: none"> ▪ 1 M.2 Key B Socket (2280) ▪ 1 M.2 Key E Socket (2230)
Mini PCIe	<ul style="list-style-type: none"> ▪ 1 Mini PCIe Socket for PCIe/USB 2.0/SIM Card ▪ 2 Mini PCIe Socket for PCIe
Mechanical	
Dimensions (W x L)	203 mm x 146 mm
Environment	
Operating Temperature	-20°C to 85°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% at 85°C
EMC	CE, FCC

Block Diagram

