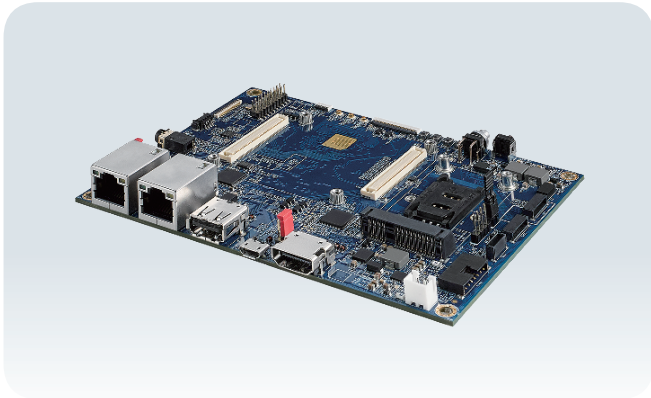


ESOM-MT-500-CB

Arm-Based MediaTek Genio 500 Carrier Board



Features

- Compatible with ESOM-MT-500 System on Module
- Support Digital Display and 4-lane MIPI DSI Interface
- Support 4-lane CSI-2 Camera Interface
- 2 LAN, 1 USB 2.0, 1 Micro USB, 1 COM RS-232
- Mini PCIe with SIM socket for 4G/LTE/WiFi/BT/GPRS/UMTS
- 1 Audio Jack for Mic-in, Line-out



Specifications

System	
Processor	MediaTek Genio 500 Processor with Quad-core Cortex-A73 @2.0GHz and Quad Cortex-A53 @2.0GHz
Memory	4GB LPDDR4 SDRAM
eMMC	16GB eMMC
OS	<ul style="list-style-type: none">▪ Android 10▪ Linux Yocto 2.6
Graphics	
Display	<ul style="list-style-type: none">▪ Digital Display : up to 1920 x 1080▪ 4-lane MIPI DSI : up to 1920 x 1080
Camera	4-lane MIPI CSI-2
Ethernet	
LAN 1	10/100 Mbps Ethernet LAN, RJ45 Connector
LAN 2	10/100 Mbps Ethernet LAN, RJ45 Connector
Audio	
Audio Interface	1 Audio Jack for Mic-in, Line-out
Environment	
Operating Temperature	0°C to 60°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% at 60°C
EMC	CE, FCC

I/O Interface	
External I/O	<ul style="list-style-type: none">▪ Power Button▪ Reset Button▪ 2 RJ45 Connector▪ 1 USB 2.0 Type A▪ 1 Micro USB 2.0 OTG Port▪ 1 Digital Display▪ 1 Audio Jack
Internal I/O	<ul style="list-style-type: none">▪ 1 2-pin DC-in connector▪ 2 board to board Connector▪ 1 Debug Console Port▪ 1 COM RS-232 Connector▪ 1 MIPI DSI Connector▪ 1 MIPI CSI-2 Connector▪ 1 Touch Screen Connector▪ 1 SIM card Socket▪ 1 mini PCIe Socket▪ 2 Volume Button▪ 1 Mono Speaker-out Connector▪ 1 Miscellaneous pin header (1 I2C, 1 SPI, 12 GPIO)▪ 1 Battery charger connector▪ 3 IPEX connectors
Expansion	
Mini PCIe	1 Mini PCIe for USB/SIM Card
Wireless	
Wi-Fi & BT	MediaTek MT7668 <ul style="list-style-type: none">▪ 2x2 Dual-band Wi-Fi 802.11ac with MU-MIMO▪ Bluetooth 5.0
Power	
Power Input	12V DC-in
Mechanical	
Dimensions (W x L)	140mm x 100mm (5.51" x 3.94")

Block Diagram

