

Megatronix (Beijing) Technology Co,Ltd.

Central Infotainment Module

Product Specification

1.General

CIM is an infotainment Module mainly designed for vehicle cockpit experience. It is able to manage displays driving, Wifi-BT connection and necessary in-vehicle network bus communication. With which the cockpit infotainment features in vehicle scenarios are fully delivered by CIM.

2.List of part

CIM: 1 unit

3.Specification

3.1 Specification

Voltage range	9V-16V
Voltage	12V DC
Software Update	Firmware Over-the-Air
Processor	MTK MT2712

Operation SYSTEM	Linux, Android Operating
Dimension	210.19mm(L) x 197.73mm(W) x 98.56mm(H)

3.2 Main function

- Dual CPU structure,Dual A72+Qual a35,4Gbyte LPDDR4; Mali880; android+linux;
- Android support displays , touch panel, Linux support displays , touch panel control
- Micphone support A2B bus(reserved feature)| Wifi,BT: 2 in 1 chip solution with wifi/bt Antenna
- Heat dissipation:passive dissipation with a standby fan for extreme scenario
- support Ethernet, Can, Lin for specified requirements
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- support Ethernet, Can, Lin for specified requirements
- Hardware Version : CIM-HW0400.01.01
- Software Version : AKFD-003-AB2222700055 (Object to be updated for performance improving,please refer to the label of the unit)
- Main processors function:

System: Dual CPU MT2712, integrated with LPDDR4,16GB, EMMC 16GB, EMMC 64GB.

This system delivers the video streaming signal with chip FPD LINK DS90ub947.

This system delivers the WIFI/BT communication services with MT6630 from MTK

This system is monitored by MCU S32K144HAF0MLLR. The MCU transfers the bus signal and the sensor signal from the CAN BUS.

The MT6630N:

The worldwide wireless connectivity combo chipset supports 802.11a/b/g/n/ac 1T1R WLAN function with 20/40/80MHz bandwidth, Bluetooth 5.0 compliant. It also supports single antenna sharing among 5GHz WLAN, 2.4Ghz Bluetooth and WLAN. It supports single TCXO for all radios, a 2.8V, 26MHz TCXO is preferred.

All the main components are highly integrated chips which are functional with the proper set-up with passive components as supporting circuits: Resistor; Capacitor, etc.

3.3 Dimension

5. Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.