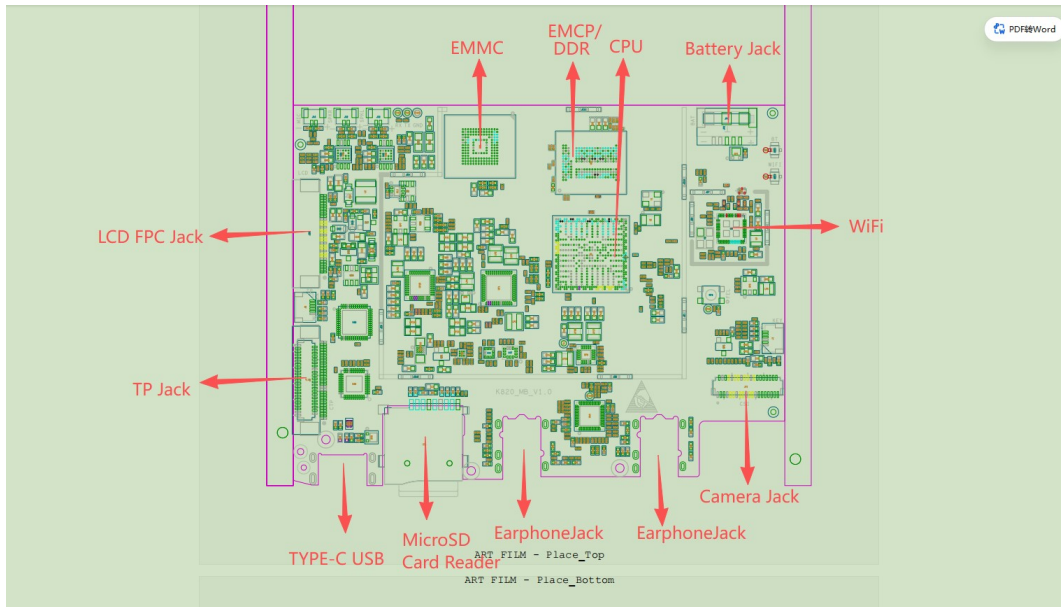


---

# PRODUCT SPECIFICATION

<b>PRODUCT NAME</b>	<b>PCBA</b>
<b>P/N</b>	<b>K820_MB_V1.0</b>

# 1. Outlooking:



## 2. Spec

CPU: A333  
Total Cores: 5  
Burst Frequency: 1.8GHZ  
Processor Base Frequency: 1.5GHZ  
EMCP: 2GB LPDDR3 + 32GB EMMC

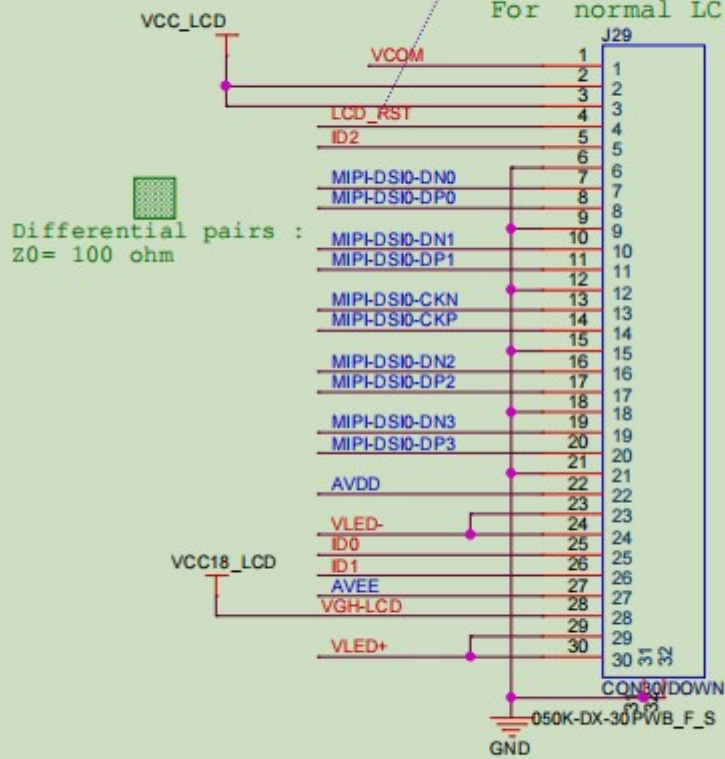
## 3. Drawing





Attention: Power domain, use 3.3V VCC-PD

For normal LCD





## FCC Statement

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).

## 2.2 List of applicable FCC rules FCC Part 15 Subpart C 15.247 & 15.407

### 2.3 Specific operational use conditions

The module can be used for mobile applications with a maximum 1.65dBi antenna. The host manufacturer installing this module into their product must ensure that the final composite product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules, including the transmitter operation. The host manufacturer has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as shown in this manual

### 2.4 Limited module procedures

The device is a Single module and complies with the requirement of FCC Part 15.212

### 2.5 Trace antenna designs

Not applicable, The module has its own antenna, and does not need a host printed board micro strip trace antenna etc

### 2.6 RF exposure considerations

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction, and if RF exposure statement or module layout is changed, then the host product manufacturer required to take responsibility of the module through a change in FCC ID or new application. The FCC ID of the module cannot be used on the final product. In these circumstances, the host manufacturer will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization

### 2.7 Antennas

Antenna Specification are as follows.

Type of antenna: FPC Antenna

Gain of antenna: 2.4GHz @ 1.65dBi Max. 5GHz @ 1.29dBi

This device is intended only for host manufacturers under the following conditions: The

transmitter module may not be co-located with any other transmitter or antenna,

The module shall be only used with the internal antenna(s) that has been originally tested

and certified with this module. The antenna must be either permanently attached or employ a "unique" antenna coupler. As long as the conditions above are met, further transmitter test will not be required

However, the host manufacturer is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc)

### 2.8 Label and compliance information

Host product manufacturers need to provide a physical or e-label stating "Contains FCC ID

FCC ID: 2AAWC-SKD822" with their finished product

### 2.9 Information on test modes and additional testing requirements

Host manufacturer must perform test of radiated & conducted emission and spurious

emission, etc according to the actual test modes for a stand-alone modular transmitter in a host, as well as

for multiple simultaneously transmitting modules or other transmitters in a host product. Only when all the test results of test modes comply with FCC requirements, then the end product can be sold legally.

### 2.10 Additional testing, Part 15 Subpart B disclaimer

The modular transmitter is only FCC authorized for FCC Part 15 Subpart C 15.247 & 15.407 and that the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuit), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed