

K628-G 4G LTE Module

Specification

1.0 Document Revision History

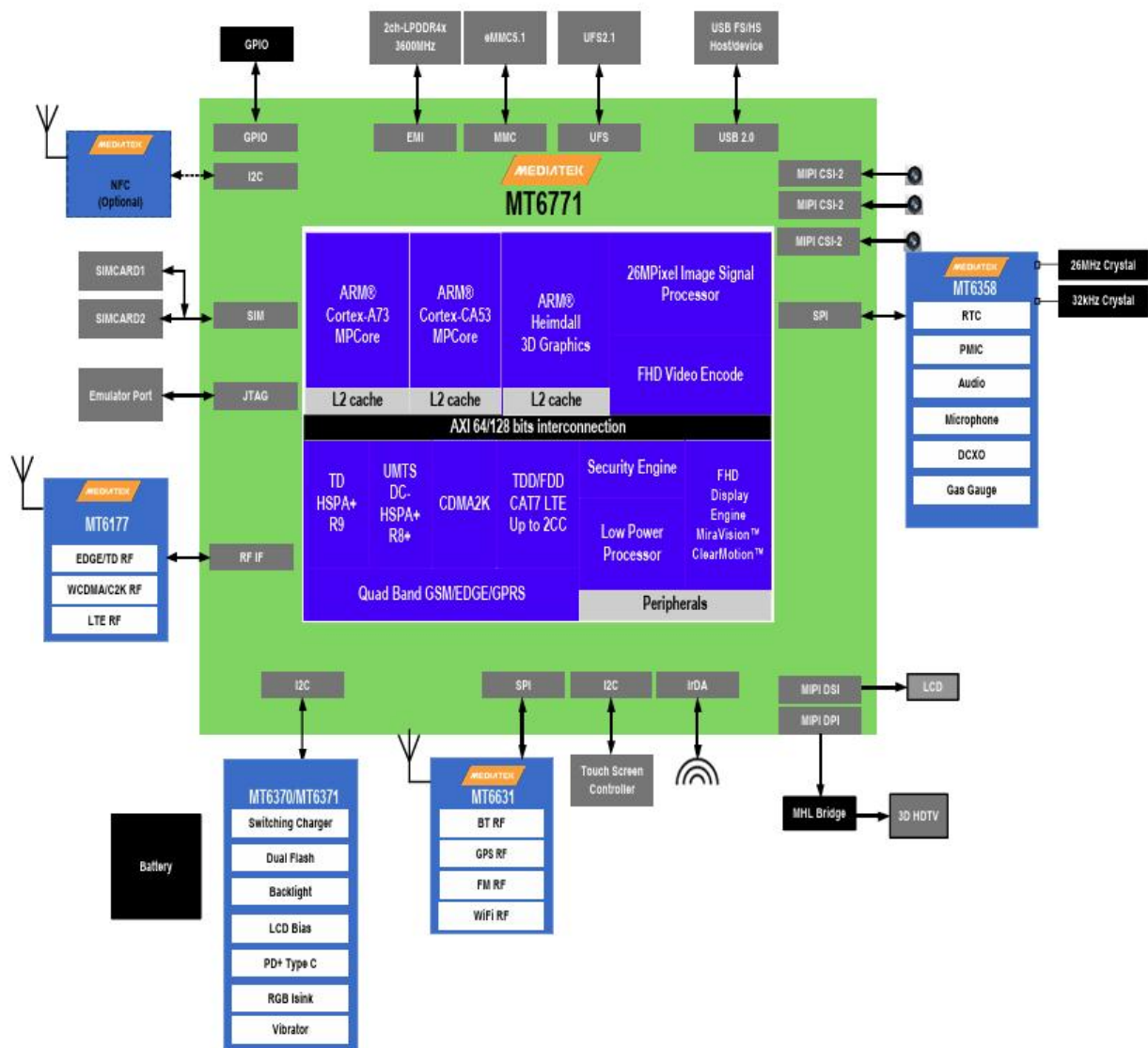
Date	Version	功能变更描述
2023-08-25	V1.1	First official release
2023-12-16	V1.2	Updated operation condition.

1.0 Dimension



Dimension : L*W*H 67.5*37.5*4(typical)mm

1.1 Functional Specification



1.2 General Specification

Model Name	K628-G
Product Description	Support 4G LTE/wifi/Bluetooth/Gps
LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28/B66/B71
LTE-TDD	B34/B38/B39/B40/B41
WIFI	Dual-band (2.4GHz and 5GHz) single stream 802.11 a/ b/g/n/ac RF, 20/40/80MHz bandwidth
Bluetooth	Bluetooth specification v2.1+EDR, 3.0+HS and v4.1+HS compliant
Operating Temperature	-20 to +60°C
Storage Temperaturestorage	-40 ~ +85 °C

Humidity	Operating Humidity 10% to 95% Non-Condensing
----------	--

1.3 Electrical characteristics

Symbol	Parameter	Min	Typ.	Max	Unit
VSYS	Supply Voltage	3.3	4.0	4.2	V
VBUS	USB Voltage	4.5	5	5.5	V
IDD	current consumption in normal mode	350	600	750	mA
ESD Rating	HMB,R=1.5k,C=100pF			±2	kV

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.

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

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.

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

"Contains Transmitter Module FCC ID:2BFPB-K628 Or Contains FCC ID: 2BFPB-K628"

When the module is installed inside another device, the user manual of the host must contain below warning statements;

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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

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

The module is limited to OEM installation ONLY

The OEM integrators is responsible for ensuring that the end-user has no manual instructions to remove or install module

The module is limited to installation in mobile or fixed applications, according to Part 2.1091(b)

The separate approval is required for all other operating configurations, including portable configurations with respect to configurations

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

Any company of the host device which install this modular with Single modular approval should perform the test of radiated emission and spurious emission according to FCC part 15C : 15.247 and 15.209 requirement, Only if the test result comply with FCC part 15C : 15.247 and 15.209 requirement, then the host can be sold legally.

Antenna information

Antenna Type	Antenna Gain
External antenna	3.5 dBi
External antenna	6.6 dBi
PIFA antenna	3.5 dBi

Trace antenna designs: Not applicable.