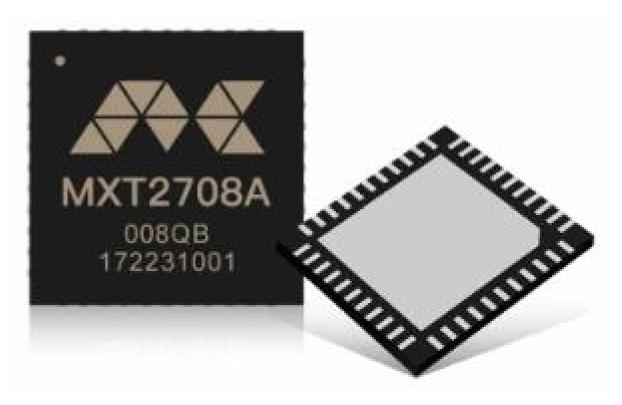
## GNSS baseband and RF integrated SoC MXT2708A

The MXT2708A is a high-performance baseband and RF integrated SoC, Designedand developed by MXGNSS using a 40nm process based on completely independent intellectual property rights. Utilizing the broadband radio frequency technolo-gy independently developed by MXGNSS, the chip supports all deployed satelliteconstellations, including BDS, GPS, GLONASS, Galileo, QzSS, etc.lt initiativelyachieves the target that a single chip synchronously receives satellite signals fromBDS/GPS/GLONASS Galileo systems, effectively improving the positioning perfor-mance, including sensitivity, the initial positioning time, positioning accuracy, etcWith its high integration and multi-function features, MXT2708A is suitable forautomotive, industrial, consumer electronics, and other fields.



## **Technical Feature**



40nm Process baseband and RF integration



Support BDS/GPS/GLONASS/Galileo



High sensitivity design



**Support AGNSS** and **DGNSS** 



Smart Supress anit-jamming technology



Supporting precision timing(optional)



Supporting RTK algorithm(optional)

## **Specifications**

Signal Tracking

Position Accuracy

TTFF

Sensitivity

Velocity Accuracy Nav. Update Rate 1PPS Accuracy

Operational Limits

Nav. Data Format

Power Consumption Package Supply

Temperature

GPS/QZSS L1CA / L2C /L5
BDS B1// B1CB21 / B2a
GL0NASS L1 / L2
Galileo E1 / E5a
2.0m CEP
RTD:0.5m CEP
RTD:0.5m CEP
RTK: 2.0cm+1ppm CEP
Cold Starts: 30s
Hot Starts: 1s
Acquisition: -147dBm
Tracking: -164dBm
0.05m/s
1 / 2 / 5 / 10HZ
20ns
Altitude: 18000m
Velocity: 515m/s
Dynamics: 4g
NMEA 0183
MXT Data Format

Velocity: 515m/s Dynamics: 4g NMEA 0183 MXT Data Format RTCM 2.3 / 2.4 / 3.X 35mA@3.3V 5x5mm QFN 3.3V

Ambient -40°C~85°C Store -40°C~85°C

## **Application Area**



**Electric Timing** 



**Deformation Monitoring** 



**Base Station Orientation** 



**Itelligen Robot** 



**Shipborne Navigation** 



**Smart Agriculture** 



Vehicle Road Collaboration



Navigation and Positioning