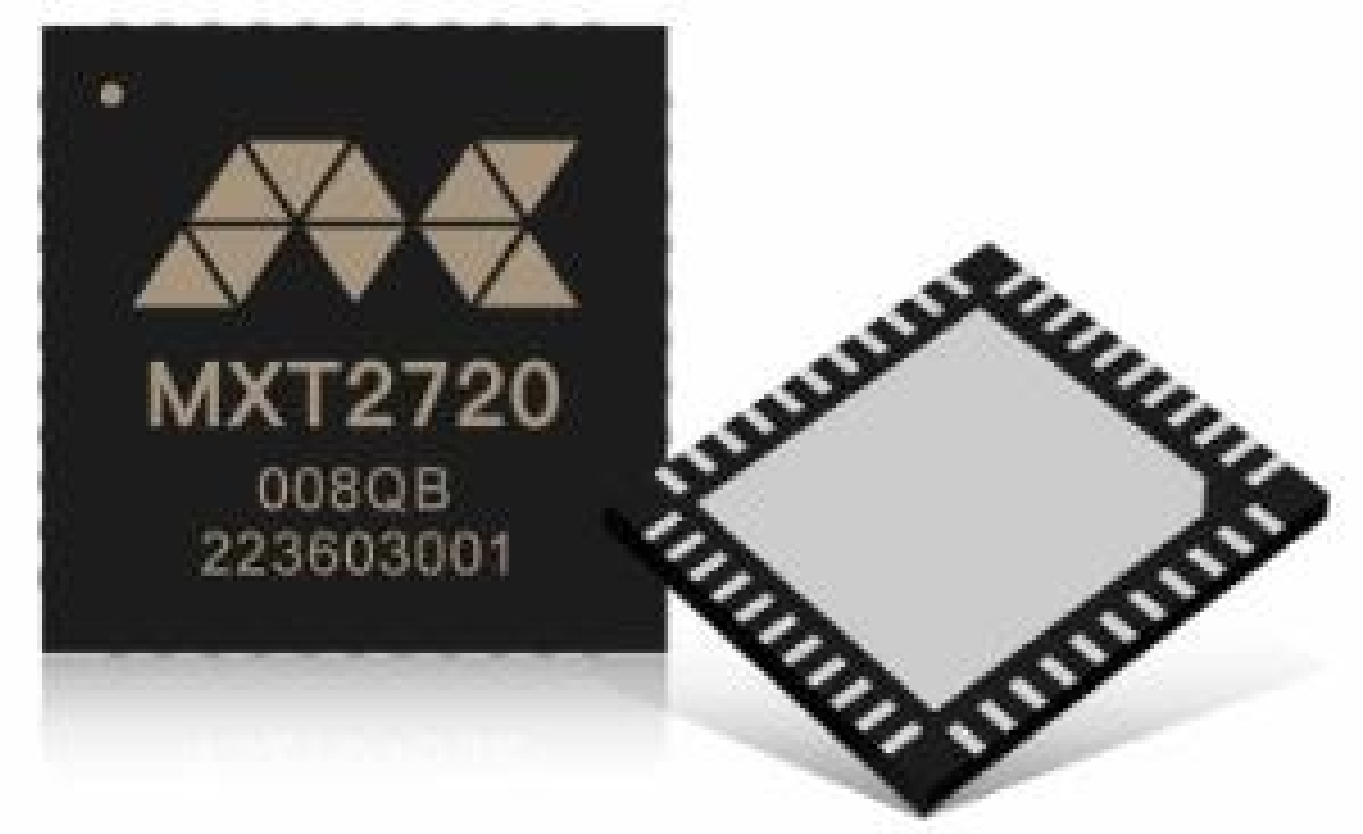
GNSS baseband and RF integrated SoC MXT2720

The MXT2720 is aultra small,high-performance GNSS chip with AEC-Q100qualified, designed and developed by MXGNSS based on completely independentintellectual property rights,. The MXT2720 supports all deployed satellite constella-tion ,including BDS, GPS, GLONASS, Galileo, QZss, etc, The MXT2720 is mainlytargeted for application that require small size and high precision. The chip issuitable for automotive, 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

AEC-Q100 qualified

Specifications

Signal Tracking	GPS/QZSS L1CA / L2C /L5 BDS B1I/ B1CB2I / B2a / B2b / b3I GLONASS L1 / L2 Galileo E1 / E5a / E5b
Position Accuracy	1.0m CEP RTD:0.5m CEP RTK: 1.0cm+1ppm CEP
TTFF	Cold Starts :28s Hot Starts: 1s
Sensitivity	Acquisition : -147dBm Tracking : -164dBm
Velocity Accuracy	0.03m/s
Nav. Update Rate	1 / 2 / 5 / 10HZ
1PPS Accuracy	20ns
Operational Limits	Altitude : 18000m Velocity : 515m/s Dynamics : 4g
Nav. Data Format	NMEA 0183 MXT Data Format RTCM 2.3 / 2.4 / 3.X
Power Consumption	30mA@3.3V
Package	5x5mm QFN
Supply	3.3V
Temperature	Ambient -40℃~85℃ Store -40℃~85℃

Application Area

Electric Timing

Deformation Monitoring

Base Station Orientation

Itelligen Robot

Shipborne Navigation

Smart Agriculture

Vehicle Road Collaboration

Navigation and Positioning