

Operation Description

FCC ID: TFJA10-T-GM

This device (Payment Terminal) contains RFID (13.56MHz) and WWAN module which GOSUNCN GM500-U1A is designed to provide customers with global network coverage on the connectivity of LTE. It delivers 50Mbps upload and 150Mbps download data rates on LTE networks and can also be fully backward compatible with existing 3G networks. GM500-U1A is P2P with ME3630 series. Rx diversity which allows the end-device to be equipped with two distinct cellular antennas improving the quality and reliability of the wireless connectivity. A rich set of internet protocols (PAP and CHAP used for PPP connections) and abundant functions (GNSS, Remote wakeup, TCP/UDP, FTP, HTTP, SMS) extend the applicability of the module to a wide range of M2M applications. GM500-U1A also allows the integration of automotive and other applications requiring assured extended operating temperature range and mechanical ruggedness within the ever-shrinking space inside electronic bays in trucks, automobiles, and other mobile platforms.

Feature Implementation

Electrical & Sensitivity

Power

–LTE: 23 ± 2.7dBm (Power Class 3)

–WCDMA : 24 +1/-3dBm (Power Class 3)

–RFID

Receiving sensitivity:

-Rx Diversity

Data Features :

LTE FDD (CAT4) – Uplink 50Mbps / Downlink 150 Mbps

LTE TDD (CAT4) – Uplink 30Mbps / Downlink 112Mbps

WCDMA – Uplink 5.76Mbps / Downlink 42Mbps

Modulations :

3G/4G: UPLink : QPSK/16QAM ; Downlink :

QPSK/16QAM/64QAM

RFID : ASK

Antenna gain :

band 2: 1.75dBi ,

Band4: 1.07dBi,

Band 5: 3.68dBi,

Band 12: 0.75dBi

Antenna TYPE: FPCB

Frequency:

RFID : 13.56MHz

WCDMA:

B2:1850MHz~1910MHz ; B5:1710MHz~1755MHz ;

LTE:

B2:1850MHz~1910MHz ; B4:1710MHz~1755MHz ;

B5:1710MHz~1755MHz ; B12:699MHz~716MHz