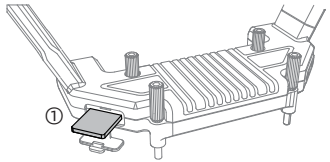
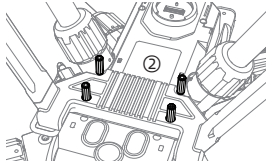
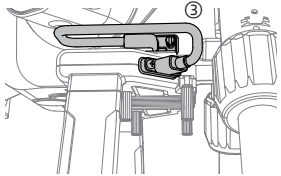
GDU

S400 4G Module





TD-LTE/LTE FDD UE Use Guidelines



Please follow the steps below to install the kit in the aircraft:

1. Insert the Nano-SIM card into the 4G module's SIM card slot. Cover the card slot's protective rubber plug.
2. Fix the 4G module to the installation position at the bottom of the aircraft. Tighten the thumb screws.
3. Connect the 4G module's connection cable to the aircraft.

⚠
- Ensure that the 4G module's connection cable is connected to the aircraft firmly.
- The LTE backup link is prone to be affected by the operator's real-time network environment. It is recommended to use a non-IOT network card. Use with caution and pay attention to signal quality

Disclaimer

Thank you for using this GDU product. In order to ensure a positive operating experience and to protect your legal rights, please carefully read this Manual before use: Please strictly follow the content of this Manual. GDU takes no responsibility for any loss caused by improper usage (including but not limited to: altering the product's structure or disassembling the product without authorization).

Use

1. Ensure that the remote controller is properly inserted with an SIM card or connected to Wi-Fi, and the network can be accessed normally.
2. Turn on the remote controller and the aircraft.
3. Launch the GDU Flight II App and enter the video transmission settings interface to set the HD and LTE link. There are the following modes:
   1) Automatic mode: This mode HD is a master video transmission link HD. When there is interference with the video transmission signal, it will automatically switch to LTE video transmission. When the video transmission signal is restored, the mode will be automatically switched back to the video transmission link.
   2) Video transmission link mode: This mode only supports the video transmission link and does not support the LTE video transmission.
   3) LTE link mode: This mode is LTE link mode, and LTE link is a master video transmission link. It will be switched to the video transmission link only when the LTE link fails. If it is not set again, it will not return to the LTE link.

⚠
- The LTE link must be used with the A4G-S400 4G module. This function is not available if the A4G-S400 4G module (an optional accessory) is not installed.
- Before takeoff, ensure that the A4G-S400 4G module and the wireless dongle have been fixed onto the aircraft to avoid having them fall off due to heavy wind or aircraft vibration during the flight process.
- The LTE backup link cannot be used with dual remote controllers.
- Due to the LTE signal coverage issues, it is likely to encounter a signal dead zone, resulting in the aircraft going out of control. Before takeoff, be sure to set the aircraft behavior (such as return altitude and HOME point) when the signal is weak based on the flight environment. If the signal is weak or lost due to the communication operator, GDU is not liable for any product damage and other issues caused by this.
- The LTE backup video transmission function is supported only in areas with strong LTE base station signals. Due to legal restrictions, the recommended flight altitude should be ≤ 120 m (≤200 m for areas applied with an airspace).
- The operating temperature of the A4G-S400 4G module is -20 to 55°C. Please do not use it in high temperature environments. For the LTE backup link, the remote controller can use Wi-Fi or a wireless dongle for access. If the wireless dongle is used to achieve connection, it is recommended to disable Wi-Fi.

Item	Technical Indexes
Voltage	4.2V~5.25V; typical value 5V
Communication interface	type-C
Operating system	Support Linux
Supported card types	Mobile SIM card, Internet of Things card (supporting China Telecom, China Mobile, and China Unicom)
Dimensions	255*63*154mm
Weight	85g
Power dissipation	≤5W
4G Network	Support TDD-LTE and LTE FDD
Network protocol	Support TCP/IP/IPV4/IPV6/Muti-PDP/FTP/FTPS/HTTP/HTTPS/DNS
Upstream and downstream bandwidth	Upstream speed of the air interface 50Mbps; downstream speed of the air interface 150Mbps

Item	Technical Indexes
Frequency	LTE-TDD B38/B41 LTE-FDD B2/B4/B5/B7/B12 GSM/GPRS/EDGE 850/900/1800/1900 MHz
Video transmission time delay	≤800 ms (tested in an unblocked network)
Maximum service altitude	250 m
IP rating	IP54
Operating temperature	-20℃~+55℃
Fixing method	Fixed by 4 thumb screws at the bottom
Antenna installation	Fixed with 2 antennas

FCC STATEMENT

1. 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.
2. 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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.