

C099 ZED-F9P quick configuration – Non moving Base, WIFI base and rover

January, 2019



New configuration file download

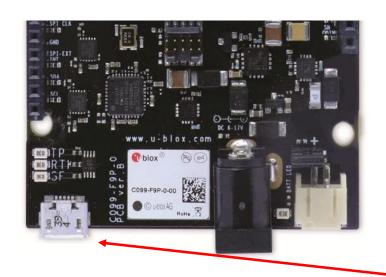


- Easy to use new configuration files have been created to allow very easy set up of a C99 base and Rover.
- These use the new configuration commands and the new ublox 9
 Advanced configuration view in u-center.
- These files cannot be downloaded using the legacy config txt file download. You must use the new config download process.

C099 REV B hook-up





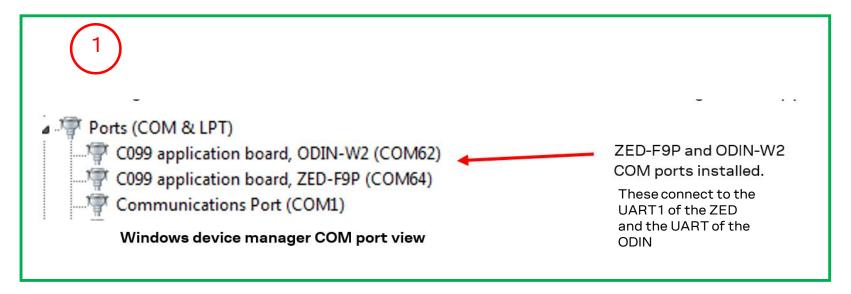


Single USB connector for connection to ZED-F9P UART1, ODIN UART, ZED-F9P USB

- C099-F9P-AppBoard_UserGuide_(UBX-18055649).pdf (REV B PCB)
- Use dual band GNSS antenna
- Requires Installation of u-blox FTDI driver and ZED-F9P USB driver automatically by Windows update via internet connection

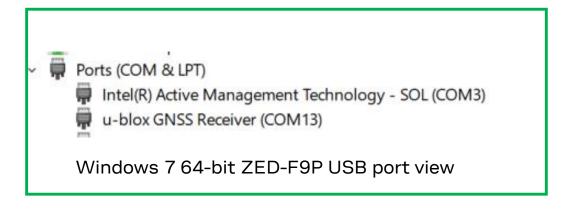
Installed USB drivers





In addition, a third VCP will be created corresponding to the ZED-F9P direct USB port.

- For Windows 10 it will be shown as "USB Serial Device (COMx)"
- For Windows 7 64-Bit it will be shown as "u-blox GNSS Receiver (COMx)"





Connecting and downloading config



• Use the ZED-F9P direct USB port to download the config as it will keep communicating with u-center after config file download.

• It is important that the Base C99 ZED-F9P UART1 does not output any other messages besides RTCM3 messages. The Base config file ensures this. You can use the Base ZED-F9P direct USB port to view debug messages etc.

• The Base ZED-F9P UART1 interface must have all input protocols disabled. The Base ZED config file ensures this. The Rover ZED data is fed back into the Base ZED UART1 and will overload the receiver.

The Rover UBX and Debug messages will be visible on the Base C99, ODIN FTDI port as the ODIN will transparently transfer them over the Wifi link. Otherwise connect directly to the Rover C99 ZED-F9P direct USB port. The direct ZED USB port will be shown as below:

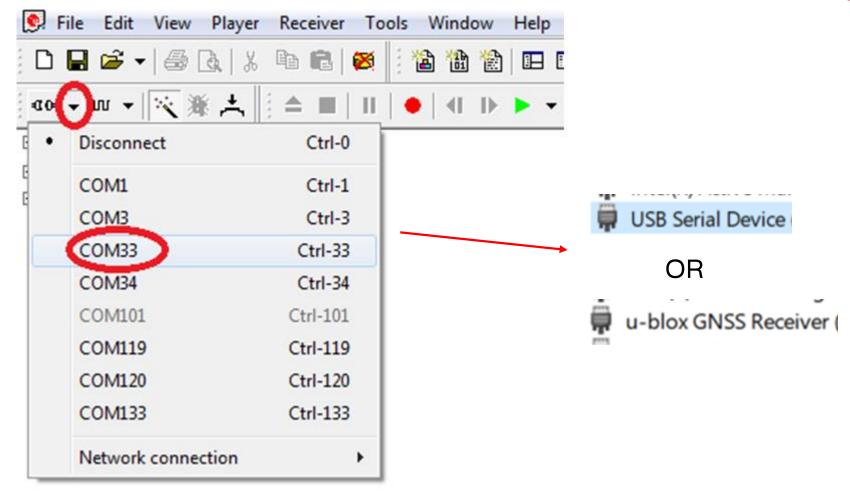






u-center select port

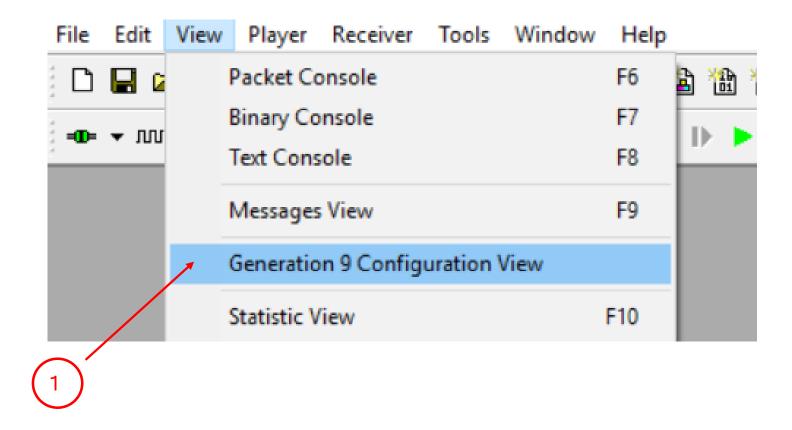




Select ZED-F9P direct USB port from device manager

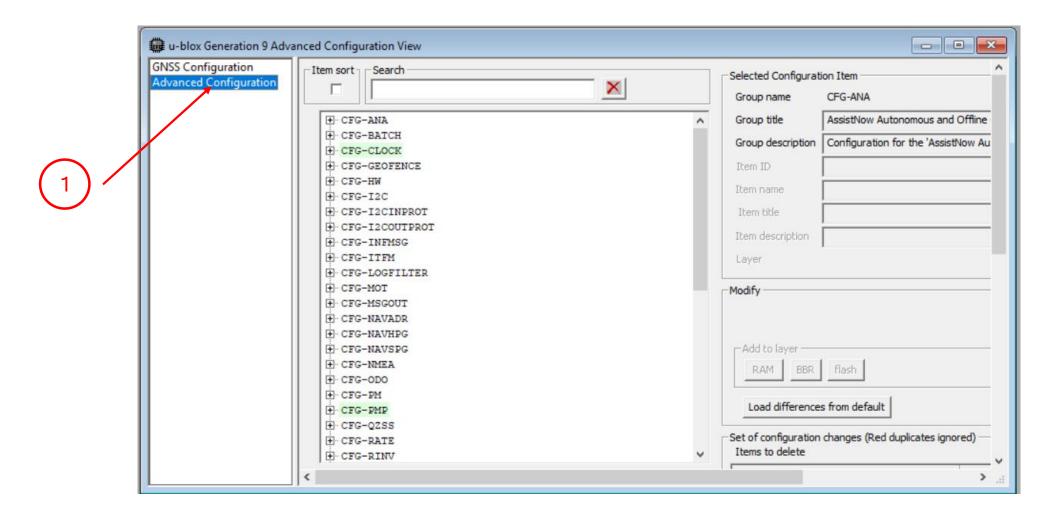
Select u-center Generation 9 Configuration view





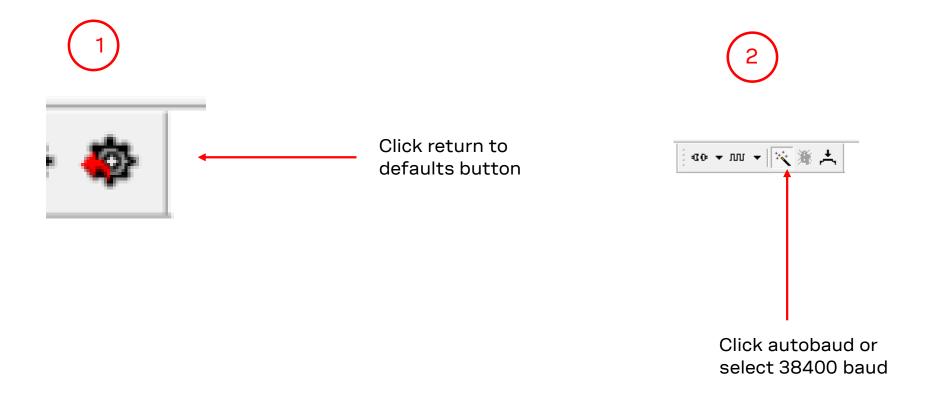
Click on Advanced Configuration





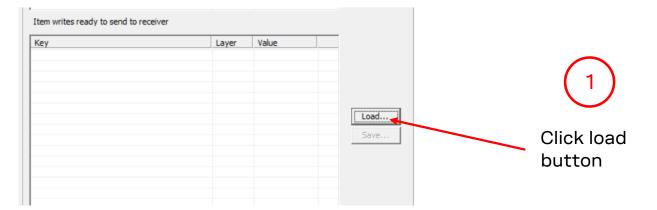
Important next step – return receiver to defaults

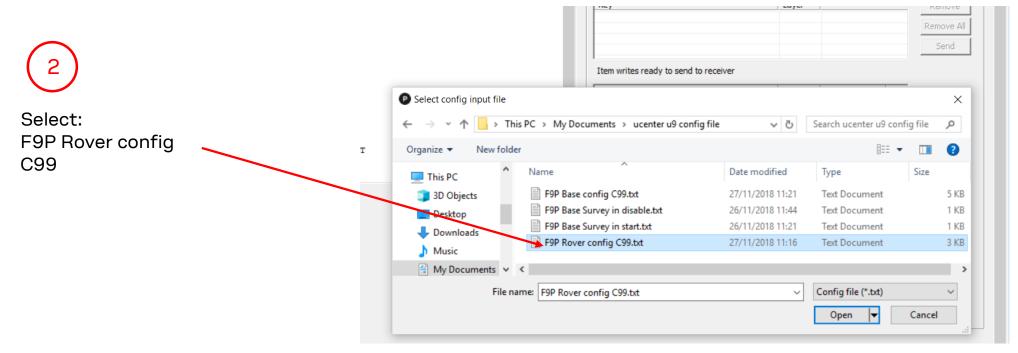




Rover C99 ZED-F9P configuration download

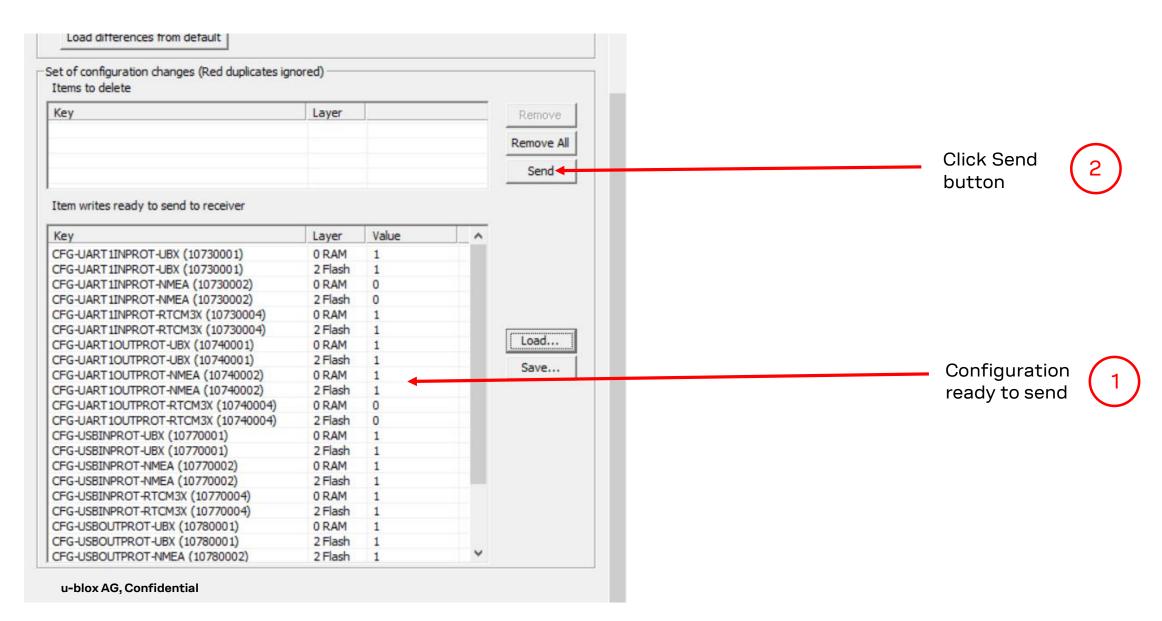






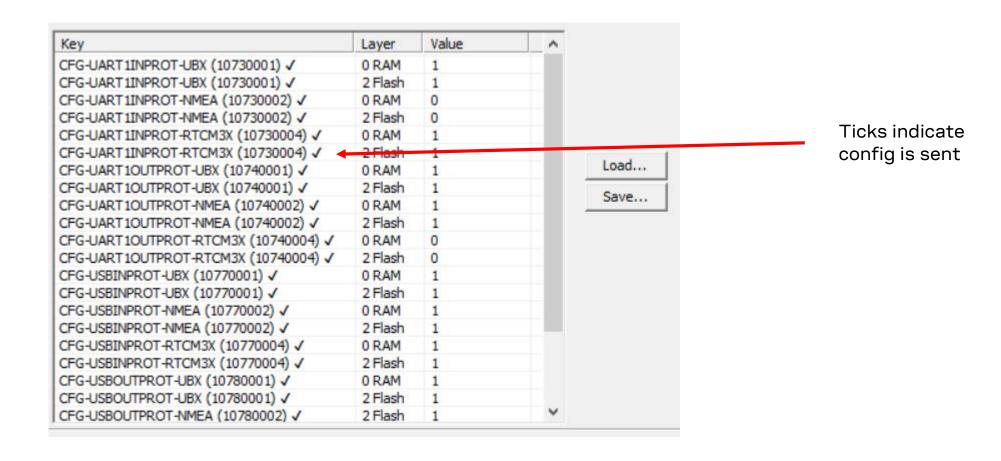
Rover ZED-F9P config Load and Send





Checking configs are sent

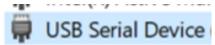




Base config file download



• Identical procedure – connect Base ZED-F9P direct USB port to u-center (1)





Open u-center, select view/u-blox generation 9/Advanced view.

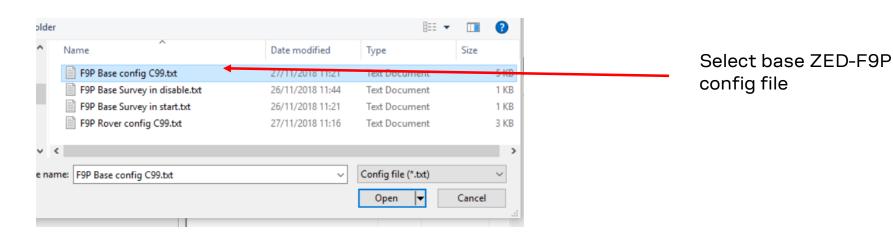
2

Return receiver to defaults.

3

• Select load and ensure you select the "Base F9P config C99.txt" file and click send.





Base C99 survey in start and stop



• After Base C99 config load – load "F9P Base Survey- in start.txt" file.



- Base C99 will start survey in automatically. (2)
- If sat conditions are OK it will go to Time mode. (3)
- NOTE: Do not move Base ZED-F9P antenna. If the antenna is moved to a new location disable Survey in first, then Cold start (This must be done), then activate survey in again.
- Send in "F9P Base Survey in disable.txt" file.
- You must then send in a Cold start to execute the disable due to firmware bug. (5)