Dove-GR

-**Low-cost GNSS Receiver**

-**Features**

-Communication method : BlueTooth, USB

-Supported GNSS signals : L1 GPS/SBAS C/A , L1 GLONASS CT, L1 -- GALILEO/COMPASS OS Data+Pilot

-Number of channels : 32 channels

-Update rate : Up to 10Hz

-NMEA/BINR protocol commands
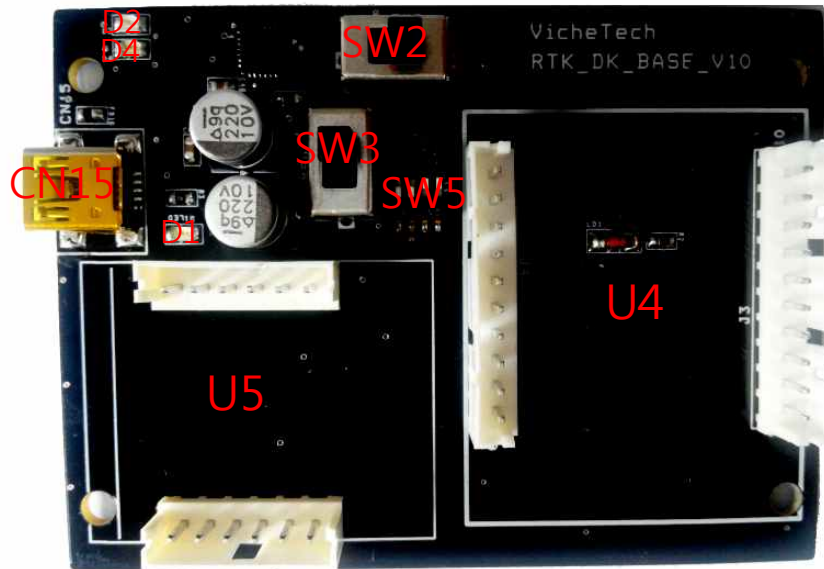
-RF Connector : SMA (External Active/Passive Antenna)

BlueTooth

-Class 2

-Bluetooth V2.0+EDR

-Serial Port Profile

-Baud Rates : 1200bps to 900Kbps

USB

-USB to UART

-Virtual COM Port Devices Drivers(Windows, Mac OS-X, Linux)
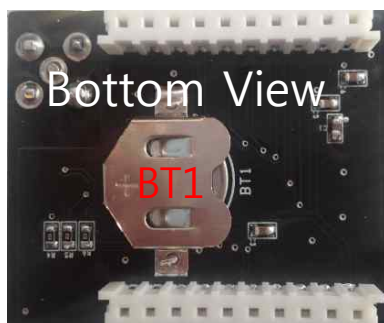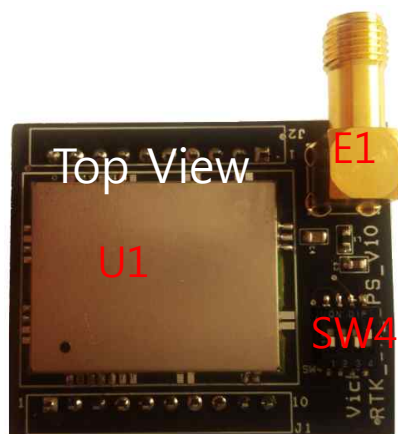
-Baud Rates : 300bps to 2.0Mbps

dove-GR Base Board

- CN15 : Mini USB Port
- D2 : Tx State LED
- D4 : Rx State LED
- D1 : USB Power State LED
- U4 : GPS Module
- U5 : Bluetooth Moduel

SW3							
	↑	SW2 : ← SW5(3,4) : OFF	USB TO Serial Connected GPS Module(BINR)		SW5(1,2)	ON	Bluetooth Connected GPS-NMEA
						OFF	Bluetooth Not Connected
		SW2 : → SW5(1,2) : OFF	USB TO Serial Connected GPS Module(NMEA)		SW5(3,4)	ON	Bluetooth Connected GPS-BINR
						OFF	Bluetooth Not Connected
	↓	SW2 : don't care SW5 : OFF	USB TO Serial Connected BlueTooth Module(Bluetooth Module Setting)				

dove-GR GPS Board

Top View — E1, U1, SW4

Bottom View — BT1

SW4(1,2,3)	1 = OFF 2 = OFF 3 = OFF	UART A – 115200 NMEA (GGA/1, RMC/1, GSV/1, GSA/1, RZD/1, GBS/10*) UART B - 115200 BINR
	1 = ON 2 = OFF 3 = OFF	UART A – 4800 NMEA (GGA/1, RMC/1, GSV/1, GSA/1, RZD/1, GBS/10*) UART B – 19200 BINR
	1 = OFF 2 = ON 3 = OFF	UART A – 9600 NMEA (GGA/1, RMC/1, GSV/1, GSA/1, RZD/1, GBS/10*) UART B – 19200 BINR
	1 = ON 2 = ON 3 = OFF	UART A – 19200 NMEA (GGA/1, RMC/1, GSV/1, GSA/1, RZD/1, GBS/10*) UART B – 57600 BINR
	1 = OFF 2 = OFF 3 = ON	UART A – 38400 NMEA (GGA/1, RMC/1, GSV/1, GSA/1, RZD/1, GBS/10*) UART B – 38400 BINR
	1 = ON 2 = OFF 3 = ON	UART A – 38400 NMEA (GNS/1, RMC/1, GSA/1, GBS/10, GSV/10, DTM/30*) UART B – 4800 RTCM
	1 = OFF 2 = ON 3 = ON	UART A – 4800 NMEA (GNS/1, RMC/1, GSA/1, GBS/10, GSV/10, DTM/30*) UART B – 4800 RTCM
	1 = ON 2 = ON 3 = ON	UART A – 57600 NMEA (GGA/1, RMC/1, GSV/1, GSA/1, RZD/1, GBS/10*) UART B – 57600 BINR
SW4-4	ON	Antenna connected External Power Supply
	OFF	Antenna disconnected External Power Supply

- U1 : NV08C GPS Module
- E1 : SMA-Female Connector
- BT1 : Baseband Battery(CR1220)

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dove-GR Bluetooth Board

- U1 : BCD210 Bluetooth Module
- SW6 : Pairing Mode
- SW7 : Factory Reset
- D3 : Power State LED