















| RTK GNSS April 2020 | |  |  |  |  |  |  |  |
|------------------------------------|----------------|---|---|--|---|---|---|---|
| | |  |  |  |  |  |  |  |
| MODEL | | S990A | VIVA GS18 T | R12 | HiPer HR | i90 Pro | iRTK 5 new | GALAXY G6 IMU |
| CHANNELS | | 800 | 555 | 672 | 452 | 336 | 336 | 336 |
| BOARD | | P40 | NOV OEM719 | TRI BD982 | TOP Vanguard | TRI BD990 | TRI BD990 | TRI BD990 |
| SIGNALS TRACKING | GPS | L1/L2/L5 | L1/L2/L5 | L1/L2/L5 | L1/L2/L5 | L1/L2/L5 | L1/L2/L5 | L1/L2/L5 |
| | GLONASS | L1/L2/L3 | L1/L2/L3 | L1/L2/L3 | L1/L2/L3 | L1/L2/L3 | L1/L2/L3 | L1/L2/L3 |
| | BEIDOU | B1/B2/B3 | B1/B2/B3 | B1/B2/B3 | B1/B2/B3 | B1/B2/B3 | B1/B2/B3 | B1/B2/B3 |
| | GALILEO | E1/ESA/ESB/AltBOC/E6 | E1/ESA/ESB/AltBOC/E6 | E1/ESA/ESB/AltBOC/E6 | E1/ESA/ESB/AltBOC/E6 | E1/ESA/ESB/AltBOC/E6 | E1/ESA/ESB/AltBOC/E6 | E1/ESA/ESB/AltBOC/E6 |
| | QZSS | L1/L2C/L5 | L1/L2C/L5 | L1/L2C/L5 | L1/L2C/L5 | L1/L2C/L5 | L1/L2C/L5 | L1/L2C/L5 |
| | L-BAND | Atlas | TerraStar | RTX | SkyBridge | RTX | Hi-RTP | RTX |
| | IRNSS | L5 | L5 | L5 | L5 | L5 | L5 | L5 |
| | SBAS | v | v | v | v | v | v | v |
| BRIDGING OF RTK OUTAGES | | aRTK | SmartLink fill | xFILL | NO | NO | NO | NO |
| ACCURACY | Static H | 2.5mm ± 0.1 ppm | 3mm ± 0.1 ppm | 3mm ± 0.1 ppm | 3mm ± 0.1 ppm | 2.5mm ± 0.5 ppm | 2.5mm ± 0.5 ppm | 2.5mm ± 0.5 ppm |
| | Static V | 3.5mm ± 0.4 ppm | 3.5mm ± 0.4 ppm | 3.5mm ± 0.4 ppm | 3.5mm ± 0.4 ppm | 5mm ± 0.5 ppm | 5mm ± 0.5 ppm | 5mm ± 0.5 ppm |
| | RTK H | 5mm ± 0.5 ppm | 8mm ± 0.5 ppm | 8mm ± 0.5 ppm | 5mm ± 0.5 ppm | 8mm ± 1 ppm | 8mm ± 1 ppm | 8mm ± 1 ppm |
| | RTK V | 10mm ± 0.5 ppm | 15mm ± 0.5 ppm | 15mm ± 0.5 ppm | 10mm ± 0.8 ppm | 15mm ± 1 ppm | 15mm ± 1 ppm | 15mm ± 1 ppm |
| RATE HZ | 10-50 | 20 | 20 | 100 | 50 | 50 | 50 | |
| MEMORY | 32Gb | 8Gb | 6Gb | 32Gb | 32Gb | 16 Gb | 8 Gb | |
| BLUETOOTH | v | v | v | v | v | v | v | |
| WIFI | v | NO | v | v | v | v | v | |
| WEB USER INTERFACE | v | NO | v | v | v | v | v | |
| OS | Linux | NO | NO | Linux | Linux | Linux | Linux | |
| RADIO INTEGRATED 410 - 470 MHz | v | v | v | v | v | v | v | |
| RADIO INTEGRATED 902.4 - 928 MHz | v | NO | NO | v | NO | NO | NO | |
| GSM INTEGRATED | 4G | 4G | 4G | 3G | 4G | 4G | 4G | |
| DISPLAY INTEGRATED | v | NO | NO | NO | v | v | v | |
| NFC | NO | NO | NO | NO | v | v | v | |
| E-BUBBLE | v | v | v | v | v | v | v | |
| E-COMPASS | NO | NO | v | NO | NO | NO | NO | |
| IMU | v | v | NO | v | v | v | v | |
| MAX TILT OPERATION | ±60° | ±30° | ±30° | ±15° | ±30° | ±30° | ±60° | |
| PORT FOR EXTERNAL ANTENNA | NO | NO | NO | v | NO | NO | NO | |
| 1PPS | v | NO | v | v | NO | NO | NO | |
| BATTERY CHANGE | NO | v | v | v | v | v | v | |
| OPERATING TIME (HOURS) STD BATTERY | 9 | 6 | 5 | 9 | 8 | 10 | 12 | |
| NR. BATTERY | 1 | 1 | 1 | 2 | 2 | 1 | 1 | |
| HOT SWAP | NO | NO | NO | v | v | NO | NO | |
| MATERIAL | Magnesium | | Magnesium | Magnesium | Magnesium | Magnesium | Magnesium | |
| WEIGHT | 1400g | 1200g | 1120g | 1000g | 1260g | 1200g | 1440g | |
| IP | 67 | 66/68 | 67 | 67 | 67 | 67 | 67 | |
| MIL | STD-810H | STD-810G | STD-810F | NO | NO | STD-810G | STD-810G | |
| OPERATING TEMPERATURE | - 40° + 65° | - 40° + 65° | - 40° + 65° | - 40° + 80° | - 40° + 65° | - 40° + 65° | - 45° + 60° | |
| CONTROLLER | Win Mobile | NO | CS20 | NO | FC-500 TESLA | NO | NO | X11 Pro |
| | Win 10 | UT20 | CS35 | TSC7 T7 T10 | FC-5000 | NO | NO | NO |
| | Android | UT10 UT30 S40 | NO | NO | NO | HCE320 LT700 | iHand30 | H3Plus N80 |
| SOFTWARE | Win Mobile | FieldGenius SurvCE | Captivate | NO | Magnet | NO | FieldGenius SurvCE | FieldGenius |
| | Win 10 | FieldGenius SurvCE | Captivate | Access | Magnet | NO | NO | NO |
| | Android | Cube-a FieldGenius | NO | NO | NO | LandStar7 | Hi-Survey Road | SurvX |
| SOFTWARE POST PROCESSING | Cube-manager-p | LGO | TBC | Magnet Office | CG02 | HGO | STC | |
| WARRANTY | 2 Years | 1 Year | 1 Year | 1 Year | 1 Year | 1 Year | 1 Year | |
| PRESENTATION | 2020 | 2017 | 2018 | 2016 | 2019 | 2019 | 2020 | |

| | | |
|--------|---|----------------------|
| Legend | | Competitor is worst |
| | | Competitor is better |