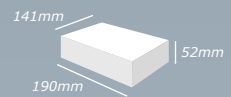


# VC30

GNSS RECEIVER



# VC30

## Datasheet

### PERFORMANCE

Channel Configuration: 432 channels

#### Signal Tracking

GPS: L1, L2, L2C

GLONASS: L1, L2

BDS: B1, B2

Galileo: E1, E5b

SBAS: L1

QZSS: L1/L5

#### Horizontal Position Accuracy (RMS)

Single Point L1: 1.5m

Single Point L1/L2: 1.2m

#### Code Differential GNSS Positioning

SBAS: 0.6m

DGPS: 0.4m

#### Static GNSS Surveying

Horizontal: 5mm+1ppm

Vertical: 10mm+1ppm

#### Real Time Kinematic Surveying

Horizontal: 10mm+1ppm

Vertical: 20mm+1ppm

#### Maximum Data Rate

Measurements: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz

Position: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz

#### Time to First Fix

Cold start: <50 seconds

Hot start: <35 seconds

#### Signal Reacquisition

L1: <0.5 seconds (typical)

L2: <1.0 seconds (typical)

#### Time Accuracy

20 ns RMS

### PHYSICAL AND ELECTRICAL

Dimensions: 190mmx52mmx141mm

Weight: 1.1Kg

#### Power

Input voltage: DC8V ~ 32V, with Polarity Reverse Protection

### COMMUNICATION PORTS

Full RS-232 serial (Dsub 9 pin) on Port 1 and Port 2

Ethernet: LAN, RJ45,

Bluetooth: Fully Integrated, Fully Sealed 2.4 GHz (optional)

Data storage: 8GB External Memory (optional)

#### Data Formats

Data output: NMEA-0183, raw data

Differential data: RTCM2.3 / 3.0 / 3.1 / 3.2 CMR (optional)

### ENVIRONMENTAL

#### Temperature

Operating: -40°C ~ +70°C

Storage: -45°C ~ +80°C

Humidity: 95% non-condensing

Environment protection: IP67

#### Shock

Designed to survive a 2 m (6.6 ft) pole drop onto concrete



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VC30 Datasheet Rev. 0