#### **SS Speed Sensors**

### Compact and responsive solution for GNSS-based speed measurement systems

Supports GPS, GLONASS, Galileo and BeiDou High sensitivity with data updates rates up to 10 Hz

Client-specific hardware and container design and color customization available

GNSS augmentation (SBAS) support including: WAAS, EGNOS, MSAS, GAGAN

Speed accuracy up to 0.1m/s for 95% of measurements

Operating temperature  $-30 \,^{\circ}\text{C}$  to  $+80 \,^{\circ}\text{C}$ 



Satellite-based speed sensing is suitable for difficult conditions where sinking and slipping cause failures

Wide range of voltage input for maximum flexibility (8-40V DC)

Multi-band, multi-system GNSS support for global coverage

Lightweight and easy-to-mount waterproof container

Cold starts in less than 30 seconds and hot starts within 2 seconds

Low power consumption

Water and dust protection up to IP67

For latest product information, please visit our website or contact one of our offices.



# **FEATURES**

## INTERFACE

72-channel GNSS tracker or 184-channel GNSS tracker

GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1, Galileo E1B/C

DGPS SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN

Concurrent L1/L2 signal reception\*

Concurrent 2/3/4 constellation tracking (default GPS+GLONASS)

Calibration-free operation with quick warm-up time

Typical 10Hz, Up to 20Hz data update rates\*

Operating temperatures: -30 °C to +80 °C

Client-specific hardware and container color customization

Dimensions: 90mm x 90mm x 25mm (WxLxH)

12V - 24V DC nominal input

8V - 40V DC acceptable input voltage

Less than 200 grams including cable (4x0.22mm LIYY, unshielded)

Power consumption: <100 mA @ 12V Cold start time: less than 30 seconds

**BROWN** : DC In (8-40V)

WHITE : GROUND

GREEN : GPS ready signal, HIGH: Not ready, LOW: Ready\* **YELLOW**: Pulse signal, according to speed and specification Default signal: 130 pulses/m according to DIN 9684 / ISO 11786

UART, Analog output, NMEA 0183 output, 5v/3.3v logic level available\*

**PRECISION** 

**SENSITIVITY** : up to 167 dBm

HORIZONTAL ACCURACY: 2.0 m CEP

**SPEED ACCURACY** : < 0.1 m/s 95% of samples

MODELS

SS22-\* 2 constellation, single band(L1 only) GNSS SS receiver

\$\$33-\* 3 constellation, single band(L1 only) GNSS SS receiver

\$\$48-\* 4 constellation, dual-band(L1+L2) GNSS SS receiver

\* 6 to 20 character model configuration string

#### Y3T Systems Corporation

1 Yonge St, Suite 1801 Toronto, ON M5E 1W7 +1 (647) 259-8810 support@y3t.systems

Y3T Sistem (R&D and Factory) Musellim Koyu No:185 Babaeski, Kirklareli, TURKEY +90 (544) 511-0481 destek@y3t.systems



\* Optional feature, availability varies