V3 NOVUS

FALCON PATH FINDER

FALCON PATH FINDER is a compact, rugged enclosure containing a high quality GNSS receiver, antenna and a processing unit.

FALCON PATH FINDER provides the latest technology for precise positioning, high velocity, high altitude and high dynamics using GNSS.

This receiver meets military standards, so it can be easily deployed, without any external covering. It is designed is such a way that it can be integrated into your existing equipment and is available at the most affordable price.

The receiver has internal adaptive anti-interference algorithm which enables the module effectively suppress wideband, narrowband and continuous-wave interference. It can provide users with high-quality observing data even in the complex electromagnetic environment.

SIGNAL TRACKING

Supported Navigation Systems	965
	GPS: L1C/A, L2C, L2P, L5
	GLONASS : L1 C/A, L1P, L2C/A, L2P
	Beidou: B1, B2, B3
	Galileo: E1, E5a, E5b
	SBAS: WAAS, EGNOS, MSAS, GAGAN,SDCM
	IRNSS: L5 (For future use)
	QZSS: L1, L2C, L5

PROTOCOL

NMEA 2.3,NMEA 4.1,RTCM 3.3
Advanced Navigation Packet Protocol (Customized upon request)

PERFORMANCE SPECIFICATIONS

Horizontal Position Accuracy	1.5m 3D RMS
Horizontal Position Accuracy (with SBAS)	1m 3D RMS
Horizontal Position Accuracy (with RTK or Kinematic PPK)	0.008 m
Vertical Position Accuracy (with RTK or Kinematic PPK)	0.015m
Update Rate	Up to 20 Hz
Hot Start First Fix	<15 s
Cold Start First Fix	<60 s

POSITIONING SPECIFICATIONS

Horizontal Position Accuracy	1.5 m
Horizontal Position Accuracy (with SBAS)	1.0 m
Horizontal Position Accuracy (with RTK)	0.008 m
Velocity Accuracy	<0.02 m/s
Timing Accuracy	20 ns
Acceleration Limit	< 30 g *
Altitude	< 1000000m
Velocity	< 7900 m/s

NOTE *: To be tested at 30g.

PHYSICAL AND ELECTRICAL

Dimensions	(110x82X36)mm
Weight	<0.5 KG
Input voltage	+9 to +36 VDC
Power consumption	<12w

PHYSICAL

ETHERNET 10/100MPS	1
RS232	2
RS422	1

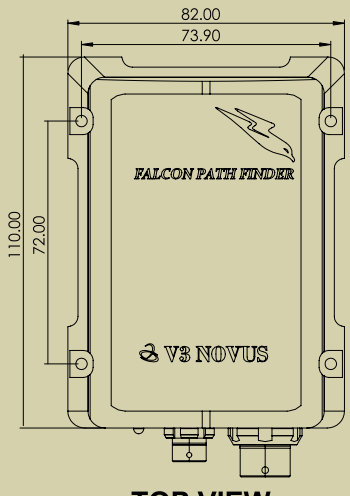
ENVIRNOMENTAL

Working temperature	-40 °C to + 85 °C
Storage temperature	-55 °C to + 95 °C

REGULATORY COMPLIANCE

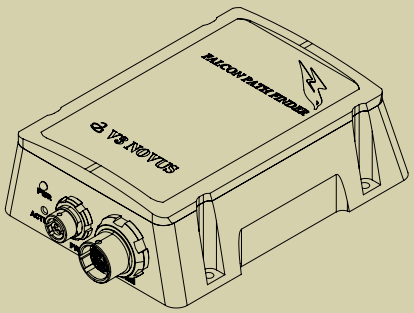
EMC Test	Spec Type of Test	Frequency Range	Requirement
CE101	Conducted Emissions	30Hz ~10kHz	30Hz ~ 1kHz :110 dB 1k-10k:110-90 dB
CE102	Conducted Emissions	30Hz ~10kHz	10kHz ~ 500KHz: 100-66dB 500KHz~10MHz:66dB
RE101	Radiated Emissions	30Hz ~100kHz	30~100k :180-110 dB
RE102	Radiated Emissions	10kHz ~ -18GHz	2MHz~18G Hz: 44-89 dB
VIBRATION	5 ~ 500 Hz, 1.48 & 1.90 & 2.24 Grms, Method 514.6 / Procedure I		
SHOCK	Method 516.6 / Procedure I		

MECHNICAL DIMENSION:

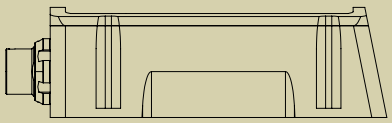


TOP VIEW

FRONT VIEW



ISO VIEW



SIDE VIEW

✱ All dimension in mm

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