

Heading accuracy (dynamic with GNSS)	-
Slip angle accuracy	-
Range	Unlimited
Hot start time	< 10 s
Output data rate	20/100 Hz
GNSS	
Supported navigation systems	GPS L1, L2* GLONASS L1, L2*
Supported SBAS systems	WAAS, EGNOS, MSAS, GAGAN, QZSS
ADDITIONAL FEATURES	
PPS output	✓
IRIG B DC output	-
Dual antenna heading	-
RTK positioning	✓
HARDWARE	
Interface	RS232 / USB, CAN, Analog, Digital
Operating voltage	9 to 36 V
Power consumption	250 mA @ 12 V
Operating temperatures	0 °C to 60 °C
Environmental protection	not IP rated
Input protection	Polarity & short overvoltage protection
Shock limit	MIL-STD 810 F
Dimensions	115 x 93 x 35 mm
Weight	740 g
INERTIAL SENSORS	
Accelerometer	-
Gyroscope	-
Magnetometer	-
Pressure sensor	-
APPLICATIONS	
Synchronization and timing with DewesoftX® DAQ	✓
Simple positioning	✓
Brake/Acceleration test	✓

5. Connection

5.1. Connector overview

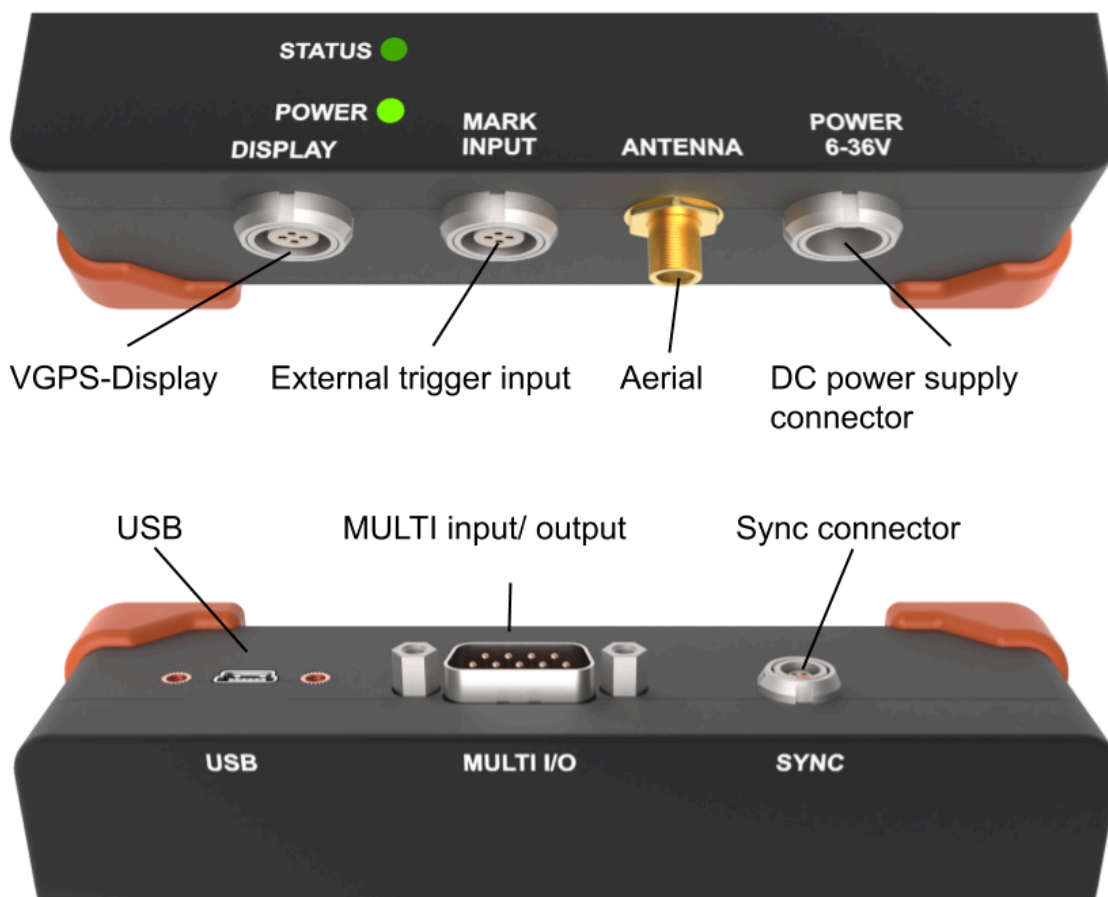


Image 6: Inputs

5.1.1. Aerial connector

Connect the GPS aerial to the SMA connector.

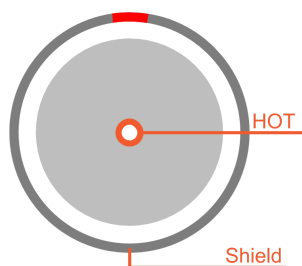


Image 7: SMA connector

5.1.2. MULTI I/O connector (DSUB-9 female)

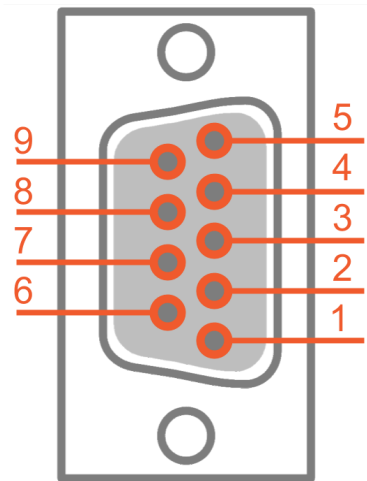


Image 8: MULTI I/O connector (DSUB-9 female)

Pin	Description
1	+5V 50mA supply
2	CAN-LOW
3	Scan clock out
4	Distance out
5	Analog speed output
6	PPS (pulse per second)
7	CAN-HIGH
8	DGND (Ground)
9	AGND (Ground)

5.1.3. USB connector

The Mini-USB interface connectors meet standard USB pin assignment.



Image 9: USB mini connector

Pin	Description
1	+5V
2	Data
3	Data +
4	Host cable identification
5	GND

5.1.4. VGPS – Display connector

To connect the external display to the DS-VGPS-HSC system.

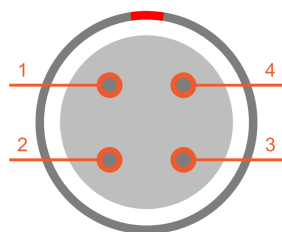


Image 10: VGPS display connector
EXG.1B.304.HLN

Pin	Description
1	+5V
2	GND
3	TXD
4	RXD

5.1.5. Mark input connector

Connects an external trigger source to the DS-VGPS-HSC system.

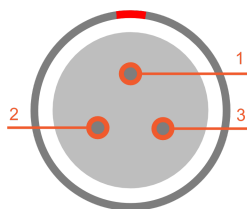


Image 11: Mark input connector: pin-out (3-pin
LEMO female)
EXG-1B.303.HLN

Pin	Description
1	+9 to +36 VDC power supply
2	GND power supply
3	Signal

5.1.6. Power supply connector

Connects the DS-VGPS-HS system to an external DC power supply.

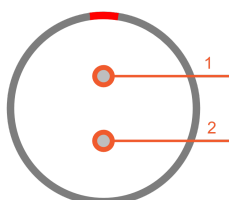


Image 12: Power supply connector (2-pin LEMO male)
EXJ.1B.302.HLD

Pin	Description
1	+9 to +36 VDC power supply
2	GND power supply

5.1.7. Sync connector

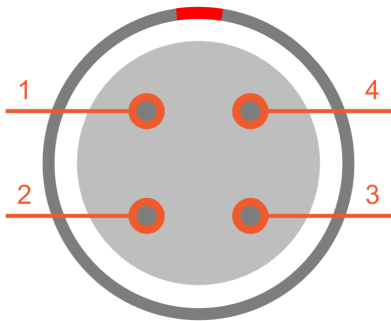


Image 13: Sync connector: pin-out (4-pin LEMO female)
Interface connector: EEG.00.304.CLL
Mating connector: FGG.00.304.CLAD27Z

Pin	Name	Description
1	CLK	Clock
2	Trigg	Trigger
3	GPS-PPS	GPS - PPS
4	DGND	Digital Ground

5.1.8. Cable for external power supply

Type of cable: LIYY 2x0.75, length: 2 m

Standard:
(included)

Optional:

Optional:

L1B2f-CIG-2m
+ Power supply
GND power supply
FGJ.1B.302.CLLD42Z

L1B2f-BAN-2m
+ Power supply
GND power supply
FGJ.1B.302.CLLD42Z

L1B2f-L1B2m-2m
+ Power supply
GND power supply
FGJ.1B.302.CLLD42Z
FGG.1B.302.CLAD52Z

Image 14: Cables for power supply