

CDG I.1 (Code 3796)

GPS adapter

Overview

CDG I.1 is a GPS receiver with an active built-in antenna, which can be connected directly to the HEAD/*lab* modules *labHMS* and *labDX* or to the BrakeOBSERVER front end MMF III.0.

Scope of Supply

- CDG I.1 (Code 3796)
GPS adapter

Requirements

for *labHMS* and *labDX*

- HEAD/*lab* firmware 1.7 and
Data Acquisition Module (HEAD
Recorder) as of ArtemiS SUITE 6

Technical Data

Channels:	50
Sensitivity:	-162 dBm
Frequency:	L1, 1575.42 MHz
C/A code:	1.023 MHz chip rate
Target precisions	
Position horizontal:	2.5 m CEP, 2.0 m CEP with SBAS
Time:	1 µsec synchronized with GPS time
Speed:	0.1 m/s; 95 % (SA off)
Datum:	WGS-84
Protocol:	NMEA-0183 V3.01 GGA, GSA, GSV, RMC, VTG
Detection rates	
Cold start:	25 s average (neither ephemerides nor almanac)
Re-acquisition:	1 s average (recovery time after interruption)
Update rate:	5 Hz
Dynamic prerequisites	
Acceleration limit:	>4 g
Height limit:	18000 m (60000 ft) maximal
Speed limit:	515 m/s (1000 kn) maximal
Power supply:	5 V
Operating temperature:	-20 °C to +60 °C (-4 °F to 140 °F)
Dimensions:	45 x 65 x 22 mm (1.77" x 2.55" x 0.86") (WxDxH)
Plug:	DSUB 9 pin
Cable length:	Approx. 6 m (approx. 236")