

IMU Calibration Certificate
No: LCI-100C 1131



For

**ICGC – Institut Cartografic i Geologic
de Catalunya**

Parc de Montjuic, S/N
Barcelona 08038

Spain

Northrop Grumman LITEF GmbH

Data Sheet PN: 153310-0000-390 Rev: E

Product: LCI-100C

PN: 153300-1000

MOD: 002

SN: 1131

Config-ID: 1011

TESTER CONFIGURATION:

Peripheral: A000

Computer: IMP130

Fixture ID: 91

Adapter: SN: 1003

Basis SW:

Appl. SW:

IAS:

Operator: Default Operator

Comment: Default Comment

PN: 309442-5001-001

Slot: 1

PN: 309327-7700-000

PN: 309186-1001

PN: 309943-2000-000

PN: 309197-1013-882

Rev: B

Pos: 1

Rev: B

Rev: A

Rev: G

Rev: A(3.52)

TEST RESULT:

Start CFG: 06/12/2016, 13:41

End CFG: 06/12/2016, 13:41

Number Tests: 6

Tests passed: 6

Fails: 0

Overall Test Result:

PASS

Name: _____ Signature, Stamp: _____ Date: _____
Operator: Burgert [Signature] 6.12.16

ATP Base Unit PN: 153310-0401 SN: 1124

Pass: ☒Fail: ☐

Name: _____ Signature, Stamp: _____ Date: _____
NG LITEF QA: HUNN [Signature] 07. DEZ. 2016

UUT PN: 153300-1000 MOD: 002 SN: 1131

Page 1

Network Station Error Summary

Data Sheet ID: 153300-0000-000 Rev. 2

Result Summary:

Testreference:	Date:	Result:
Setup IFBOX	06/12/2016, 13:41	pass
Switch UUT on	06/12/2016, 13:41	pass
Configure UUT	06/12/2016, 13:41	pass
HDLC Interface	06/12/2016, 13:41	pass
Read Default Information	06/12/2016, 13:41	pass
Switch off UUT	06/12/2016, 13:41	pass

Detailed Results:

	L. Limit	Result	U. Limit	Unit	
<u>Setup IFBOX</u>					Date: 06/12/2016, 13:41 Test: <u>pass</u>
<u>Switch UUT on</u>					Date: 06/12/2016, 13:41 Test: <u>pass</u>
Current at +27.56 V	0.200	0.391	0.750	A	pass
<u>Configure UUT</u>					Date: 06/12/2016, 13:41 Test: <u>pass</u>
CRC of UI-Data	0x715B50AC	0x715B50AC			pass
UCrcXor		0			
UCrcStart		0			
UCrcPoly		33568			
UCRCDef		220			
UParity		0			
UStop		1			
UMsgID		128			
SyncFreq		500			
UBaud		33792			
TransRate		33920			
SyncOut		21327			
RES		0			
UEnable		8			
<u>HDLC Interface</u>					Date: 06/12/2016, 13:41 Test: <u>pass</u>
Number of Bytes	35	35			pass
Gyro Status	0x00000000	0x00000000			pass
Accel Status	0x00000000	0x00000000			pass
Number of Bytes	42	42			pass
Message ID	43	43			pass
<u>Read Default Information</u>					Date: 06/12/2016, 13:41 Test: <u>pass</u>
UUT-PN		153300-1000-002			
UUT-SN		1131			
UUT-REV		C			
<u>Switch off UUT</u>					Date: 06/12/2016, 13:41 Test: <u>pass</u>

UUT PN: 153300-1000 MOD: 002 SN: 1131

page - 2

GNSS/IMU Performance (Calibration Flight 05.04.2023)

Angular Accuracy:

Component	StDev Omega [deg]	StDev Phi [deg]	StDev Kappa [deg]
IMU	0.0019	0.0023	0.0016

Position Accuracy:

Component	StDev X [m]	StDev Y [m]	StDev Z [m]
GNSS	0.0367	0.0331	0.0205

Camera: LCI-100C
Manufacturer: Northrup Grumman LITEF GmbH
Serial Number: 1131
Date of Calibration Flight: 05. April 2023
Date of Report: 26. April 2023

This GNSS/IMU system is certified by Leica Geosystems Technologies and is fully functional within its specifications and tolerances.

Date of Calibration: April 2023

Date of Certification: April 2023



Bernhard Riedl, Head of Production

Dipl.Ing. Gerald Kapoun, Technical Consultant