

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 PN: 309442-5001-001 Rev: B
Fixture ID: 91 Slot: 1 Pos: 1
Adapter: SN: 1003 PN: 309327-7700-000 Rev: B
Basis SW: PN: 309186-1001 Rev: A
Appl. SW: PN: 309943-2000-000 Rev: G
IAS: PN: 309197-1013-882 Rev: A(3.52)
Operator: Default Operator
Comment: Default Comment

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

Result Summary:

<i>Testreference:</i>	<i>Date:</i>	<i>Result:</i>
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:

	<i>L. Limit</i>	<i>Result</i>	<i>U. Limit</i>	<i>Unit</i>	
<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	<u>pass</u>
<u>Configure UUT</u>					Date: 06/12/2016, 13:41 Test: <u>pass</u>
CRC of UI-Data	0x715B50AC	0x715B50AC			<u>pass</u>
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			<u>pass</u>
Gyro Status	0x00000000	0x00000000			<u>pass</u>
Accel Status	0x00000000	0x00000000			<u>pass</u>
Number of Bytes	42	42			<u>pass</u>
Message ID	43	43			<u>pass</u>
<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>

GNSS/IMU Performance (Calibration Flight 18.04.2021)

Angular Accuracy:

Component	StDev Omega [deg]	StDev Phi [deg]	StDev Kappa [deg]
IMU	0.0018	0.0020	0.0014

Position Accuracy:

Component	StDev X [m]	StDev Y [m]	StDev Z [m]
GNSS	0.0401	0.0358	0.0205

Camera: LCI-100C
Manufacturer: Northrup Grumman LITEF GmbH
Serial Number: 1131
Date of Calibration Flight: 18. April 2021
Date of Report: 07. May 2021

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

Date of Calibration: May 2021

Date of Certification: May 2021



Bernhard Riedl, Head of Production

Dipl.Ing. Gerald Kapoun, Technical Consultant