

HERCULES INDUSTRIAL  
PCA 1256676  
Revision C

Revision	NOTES	Engineer	DATE
A	Document creation	BAP	2023-10-24
B	<ul style="list-style-type: none"><li>Update board revision check section</li><li>Update Modem section</li><li>IMU section updated</li></ul>	BAP	2023-11-20
C	<ul style="list-style-type: none"><li>Update Wifi Section</li><li>Reordered so that Wifi is before the modem</li></ul>	BAP	2023-12-18

This document is intended as a continuation of the Functional Test Procedure for PCA 1256673. Please refer to the Setup and Test Sequence in that document first.

**Note:** Either the Accelerometer or the IMU will be installed, not both.

**Board Revision Check:**

- Execute the command **"version"**
- The version command should read TELEM\_REV\_BIT0 through TELEM\_REV\_BIT3, BOARD REVISION BIT 0 through BOARD REVISION BIT 3, machine app version and bootloader version.  
The Telemetry board revision shall match the revision number listed in the released drawing of 1256676.

**IMU Check:**

- Run command **"imu ?"**
- The response shall include the following: **IMU successfully initialized() = True:1**

**Wifi Modem Check:**

- Run command **"wifi e"**
- Run command **"wifi ?"**
- The response shall include the following: **"Wifi operational state: up"**.

**Cellular Modem Check:**

- Run command **"telemetry ?"**
- The response shall include status of both UART and USB:

Communication Protocol	Passing Response
UART	"OK" or "RDY" or "APP RDY"
USB	"OK" or "RDY" or "APP RDY"

END OF TEST.