CR400B 54b
FW Release notes

Proprietary and Confidential

Version 1.0

Revised and Updated: April 13, 2020

Cellocator
by **PowerFleet®**

Legal Notices

IMPORTANT
1. All legal terms and safety and operating instructions should be read thoroughly before the product accompanying this document is installed and operated.
2. This document should be retained for future reference.
3. Attachments, accessories or peripheral devices not supplied or recommended in writing by PowerFleet Inc. may be hazardous and/or may cause damage to the product and should not, in any circumstances, be used or combined with the product.

General

The product accompanying this document is not designated for and should not be used in life support appliances, devices, machines or other systems of any sort where any malfunction of the product can reasonably be expected to result in injury or death. Customers of PowerFleet Inc. using, integrating, and/or selling the product for use in such applications do so at their own risk and agree to fully indemnify PowerFleet Inc. for any resulting loss or damages.

Warranty Exceptions and Disclaimers

POWERFLEET INC. SHALL BEAR NO RESPONSIBILITY AND SHALL HAVE NO OBLIGATION UNDER THE FOREGOING LIMITED WARRANTY FOR ANY DAMAGES RESULTING FROM NORMAL WEAR AND TEAR, THE COST OF OBTAINING SUBSTITUTE PRODUCTS, OR ANY DEFECT THAT IS (I) DISCOVERED BY PURCHASER DURING THE WARRANTY PERIOD BUT PURCHASER DOES NOT NOTIFY POWERFLEET INC. UNTIL AFTER THE END OF THE WARRANTY PERIOD, (II) CAUSED BY ANY ACCIDENT, FORCE MAJEURE, MISUSE, ABUSE, HANDLING OR TESTING, IMPROPER INSTALLATION OR UNAUTHORIZED REPAIR OR MODIFICATION OF THE PRODUCT, (III) CAUSED BY USE OF ANY SOFTWARE NOT SUPPLIED BY POWERFLEET INC., OR BY USE OF THE PRODUCT OTHER THAN IN ACCORDANCE WITH ITS DOCUMENTATION, OR (IV) THE RESULT OF ELECTROSTATIC DISCHARGE, ELECTRICAL SURGE, FIRE, FLOOD OR SIMILAR CAUSES. UNLESS OTHERWISE PROVIDED IN A WRITTEN AGREEMENT BETWEEN THE PURCHASER AND POWERFLEET INC., THE PURCHASER SHALL BE SOLELY RESPONSIBLE FOR THE PROPER CONFIGURATION, TESTING AND VERIFICATION OF THE PRODUCT PRIOR TO DEPLOYMENT IN THE FIELD.

POWERFLEET INC.'S SOLE RESPONSIBILITY AND PURCHASER'S SOLE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE TO REPAIR OR REPLACE THE PRODUCT HARDWARE, SOFTWARE OR SOFTWARE MEDIA (OR IF REPAIR OR REPLACEMENT IS NOT POSSIBLE, OBTAIN A REFUND OF THE PURCHASE PRICE) AS PROVIDED ABOVE. POWERFLEET INC. EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, SATISFACTORY PERFORMANCE AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL POWERFLEET INC. BE LIABLE FOR ANY INDIRECT, SPECIAL, EXEMPLARY, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOSS OR INTERRUPTION OF USE, DATA, REVENUES OR PROFITS) RESULTING FROM A BREACH OF THIS WARRANTY OR BASED ON ANY OTHER LEGAL THEORY, EVEN IF POWERFLEET INC. HAS BEEN ADVISED OF THE POSSIBILITY OR LIKELIHOOD OF SUCH DAMAGES.

Intellectual Property

CR400B 54b
Release Notes

Table of Contents

1 Introduction

CR400B firmware version 54b is based on version 54a and released for Beta.
Further details can be reviewed in the programming manual and protocols mentioned in the Content section below.

2 What's New

- Support for LTE CAT-M using Telit ME910G1 modem (3GPP release 14)
- In CR400B CM G1: New GNSS L76B supporting "Easy mode" allowing fast TTFF.
- Added filter for first GPS samples for better accuracy.
- In message Type-0 Pmodes=4,2 as fix indicator.

3   Applicability Table

The following table lists the products to which this document applies.

Product Name	Catalog Number	Applicability
CR400B CM C1	CT7801216-000	yes
CR400B CM G1	CT7801217-000	yes

4 Content

4.1 FW Versions

F0B1F_PCelloHW44_TelitME910C1-WW_STM32F103VET6_S512_54b_CR400B_Unified.hex

F0B20_PCelloHW76_TelitME910G1-WW_STM32F103VET6_S512_54b_CR400B_Unified.hex

4.2 PL File

- hw_44_fw_54b_CR400B_V6316.PL
- hw_76_fw_54b_CR400B_V6316.PL

4.3 Integration package

- Integration package 2.7.1

4.4 Software Utilities

- Cellocator evaluation suite installer v3.46.9.1

4.5 Documentation Versions

- FW 54b CR400 release notes   Version: 1.0
- Cellocator Serial Communication Protocol
- Cellocator Wireless Communication Protocol
- Cellocator Cello Programming Manual

5 Bug Fixes

Defect #	Fixed variants	Description
55070	CR400B CM G1	ME910G1 AT#SGACT=1,1 - ERROR responding modem issue
55688	CR400B CM G1	a hole in IP UP Numerator when switching from 4G to 2G
55718	CR400B CM G1	missing reboot after setting a new value of + WS46 (Cellular Network Selection)
55740	CR400B CM G1	Jamming is not detected in CR400 - G1
55961	CR400B CM G1	The unit fails to connect to the server in UDP mode
56051	CR400B CM G1	The unit doesn't poll for Cell ID information after 2 minutes without GPS signal
56544	CR400B CM G1	mismatch in Cell ID report when working in 4G network
56598	CR400B CM G1	The unit doesn't starts generating unconditional Cell ID messages only after getting GPS Fix
56909	CR400B CM G1	Modem G1 doesn't receive clock (NITZ) from the network
57646	CR400B CM G1	The unit doesn't turn On the Modem after Delay Timer
58243	CR400B CM G1	Although modem doesn't response for more than 30 minutes, unit doesn't make AHR at all
59059	CR400B CM G1	Modem Reset Period is not restarted upon manual reset
60045	CR400B CM C1	CR400 with ME910C1 doesn't get GPS fix
62535	CR400B CM C1	ME910C1 - Unexpected Socket Close during GPS No Fix weekend test
62882	CR400B CM G1	ME910G1: Unexpected behavior of Jamming detection
64357	CR400B CM G1	DUPLICATE: CR 400 G1 - GPS Communication Not available/Error
65177	CR400B CM G1	Unit doesn't succeed to connect to GPRS while choosing network operator manual
65218	CR400B CM G1	CR 400 - connect to maintenance server not as define
69257	CR400B CM G1	CR 400 Towing detection during no fix
70949	CR400B CM G1	While "Jammer" activated, micro stop sending commands for ~8 minutes.
72458	CR400B CM G1	FW doesn't give enough time for modem to connect to preferred operator
75582	CR400B CM G1	Micro doesn't wait enough time for Modem respond to AT#SGACT=1,1,"",""

6   Notes and Known Issues

The following table summarizes the known issues which have been encountered during

Defect #	Fixed variants	Description	Comments
55055	CR400B 4G G1	CR400 G1 Sometimes the unit reports GPS Communication as Not available/Error	Rare and minor
58106	CR400B 4G G1	CR400 G1 - Telit modem ME910G1 reply error to AT#FWSWITCH=2	Under test by modem manufacturer
65142	CR400B 4G C1	CR400 C1 GPS rarely Communication show Not available/Error	Happens only after unit FW upgrade - minor
68684	All	CR400 GPRS coverage lost for short time	In area without good CAT-M coverage .Under investigation- Minor
67597	All	CR400 - Fleet messages sent to maintenance server	Rare
68731	CR400B 4G G1	CR400 - retransmission message is sent with some delay	Rare
73313	CR400B 4G C1	CR400 C1- unit get not necessary modem reset	Rare
77461	CR400B 4G G1	Microsoft NLB doesn't reply ACK to unit	