

## IN – Information Note

<b>Topic:</b>	<b>MPCI-L100 Release of version 00S to Initial Production</b>
	UBX-14043301
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### 1 Affected Products

Product Name	Order Number	Type No	Remarks
MPCI-L100	MPCI-L100-00S	MPCI-L100-00S-00	Status: Initial Production

### 2 Type of Change

- Hardware modification
- Firmware update
- Documentation update
- Design status changed from “Engineering Samples” to “Initial Production”

### 3 Description of Change

See Appendix A for a more detailed list of all changes.

Release to Initial Production of the MPCI-L100 module; firmware version is G0.V.01.00.03. The following new documents have been released:

- Data sheet [1]
- AT command manual [2]
- System Integration Manual [3]

Newly implemented features and known limitations are listed in Appendix A.

Actions to take for customers proceeding to certification are described in Appendix B.

### 4 Schedule

This information is effective as of 20 November, 2014.

### 5 Customer Impact and Recommended Action

N/A.

### 6 Reference Documents

- [1] MPCI-L100 Data-sheet, u-blox document UBX-14001412
- [2] TOBY-L1 / MPCI-L1 series AT Command Manual, u-blox document UBX-13002211
- [3] TOBY-L1 / MPCI-L1 series System Integration Manual, u-blox document UBX-13001482

## A Description of Changes

### A.1 Hardware

#### A.1.1 New features

No new features from previous hardware version.

#### A.1.2 Changes and Bugs fixed

None.

#### A.1.3 Known Limitations

##### Spurious Emission Band UE Co-existence

The product has a permanent certification waiver from Verizon (Waiver # 10785) for the following Spurious Emission Band UE Co-existence Lab Conformance Test Cases:

1. RFS\_2.4; eFDD13, TL, VH, ETR, TCB = 10 MHz
2. RFS\_2.4; eFDD13, TL, VL, ETR, TCB = 10 MHz

### A.2 Firmware (from G0.V.01.00.02)

#### A.2.1 New Features

No new features from previous firmware version.

#### A.2.2 Changes and Bugs fixed

- +CFUN=4 would momentarily cause the device to enter airplane before reverting back to normal mode. This implied that the device would not be able to enter airplane mode if it was installed in a device without a physical airplane mode switch.

#### A.2.3 Known Limitations

##### The following features are not implemented:

- FOTA

##### Issues with AT Commands:

The following issues have been noted with AT commands:

- +COPS=0 causes device to hang
- +CLAC, u-blox AT commands are missing
- +CGPADDR not returning correct info from Test and Action commands when more than 1 APN is active
- +COPS=4 returns ERROR and device does not function properly
- +COPS=1 only supports numeric <oper>
- Some %GETCFG commands return ERROR
- +CGCONTRDP returns the response in IPV4 format
- +CGDSCONT doesn't work as specified
- +CPWD="PN" accepts password length less than 8 characters
- +CPAS returns wrong value

**SMS in Text mode:**

TOBY\_L100-370: In Text mode inbound SMSes from a 3GPP carrier do not get converted to ASCII; the SMSes remain in HEX. Whereas SMSes from a 3GPP2 carrier are fully converted to ASCII.

Workaround: The module shall be operated in SMS PDU mode only.

**Device Configuration:**

The device has predefined configurations for setting up a PDN connection. Verizon IMS and Admin PDN will be automatically set up if the device registers to the network. The Internet PDN which is used for on-demand PDN is not set up automatically.

Workaround: To enable the Internet PDN execute the following AT command to get the connection.

- a. Get Command: AT%DPDNaCT?
- b. Set Command: AT%DPDNaCT=1

## B Customer Device Certification

In order for customers to certify devices incorporating the TOBY-L100, the Execute Script AT command (AT%EXE) will need to be run. This command is not available on locked production modules.

Recommended Action: Unlocked TOBY-L100 modules must be used for certification. Customers should contact u-blox support to get access to such modules.