

PCN – Product Change Notification

Topic:	LISA-C200/FW75-C200 hardware and firmware change
	UBX-TN-12077
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1 Affected Products

Product Name	Order Number	Type No (Old)	Type No (New)	Remarks
LISA-C200	LISA-C200-01S	LISA-C200-01S-00	LISA-C200-02S-01	
LISA-C200	LISA-C200-02S	LISA-C200-02S-00	LISA-C200-02S-01	
LISA-C200	LISA-C200-22S	LISA-C200-22S-00	LISA-C200-22S-01	
FW75-C200	FW75-C200-01S	FW75-C200-01S-00	FW75-C200-02S-01	
FW75-C200	FW75-C200-02S	FW75-C200-02S-00	FW75-C200-02S-01	
FW75-C200	FW75-C200-22S	FW75-C200-22S-00	FW75-C200-22S-01	

2 Type of Change

- Hardware modification
- Firmware update
- Others, _____

3 Description of Change

New hardware versions of LISA-C200 and FW75-C200 have been introduced to further optimize performance and because some components have been phased out.

A new firmware version has also been released to support the new hardware.

Module footprint and pin-out remain unchanged.

4 Firmware

LISA-C200-02S-01 and FW75-C200-02S-01 firmware: E0.S.05.00.04R

LISA-C200-22S-01 firmware: E0.V.05.00.03R

FW75-C200-22S-01 firmware: E0.V.05.00.02R

The firmware version can be polled from the module by sending a +GMR AT-command. See AT-commands manual [1] for details.



LISA-C200 and FW75-C200 previous hardware versions (e.g. C200-x2S-00 and previous) must not be upgraded to the firmware E0.S.05.00.04R (LISA-C200 and FW75-C200), E0.V.05.00.03R (LISA-C200) and E0.V.05.00.02R (FW75-C200) as this could permanently lock the module.

5 Schedule

Samples:	Available upon request
Estimated First Shipment Date ¹ :	February 26 th 2013
Documentation:	January 26 th 2013

6 Customer Impact and Recommended Action

- Due to the change of components, a new FCC ID (R5Q-LISAC200A) and IC ID (8595B-LISAC200A) will be issued for LISA-C200. Depending on the type of application and as stated in the product documentation, the new FCC ID will also have to be visible on customer product, packaging and documentation. The FW75-C200 FCC ID will not change.
- Sprint and Aeris carriers will not require extra-testing to approve devices already certified with the previous LISA-C200-02S-00 version when the communication module is replaced with the new one.
- Verizon carrier will not require extra-testing to approve devices already certified with the previous LISA-C200-22S-00 version when the communication module is replaced with the new one.
- u-blox has taken utmost care to achieve the highest level of backward compatibility for LISA-C200-02/22S-01 and FW75-C200-02/22s to its predecessors; a system test is however recommended.

7 Reference Documents

[1] LISA-C200 and FW75-C200 AT Commands Manual (CDMA-2X-11002)

[2] LISA-C200 data sheet (CDMA-2X-11001)

[3] LISA-C200 & FW75-C200 System Integration Manual (CDMA-2X-11004)

¹ The Estimated First Shipment Date is the forecasted date that a customer may expect to receive the changed product with the new Type Number. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, u-blox will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.

A Description of changes

A.1 Hardware changes

LISA-C200: Integration of a new power amplifier and Flash/RAM combo memory

FW75-C200: Integration of a new Flash/RAM combo memory

A.2 New features and improvements

Power saving mechanism implementation

Cyclic power saving mechanism has been implemented in order to reduce the module overall power consumption when the module is not engaged in a data/voice connection. The power saving is disabled by default.

Refer to [2] and [3] for a description of the power saving

A.3 Correction of misbehaviours

+ULSTFILE: List File Information

Number of characters allowed for the parameter filename of the +ULSTFILE command has been extended to 47 characters.

Socket closure acknowledgment to the server

The module now always sends an acknowledge message to the server after a socket closure to properly complete the procedure.

FTP on Verizon network

FTP on the Verizon network always works correctly the first time.

URC on MUX channels

Improvement on MUX to ensure that the "+CMTI, CIEV" URC is only sent on channel 2 after #777 execution.

+USORF: Receive from command

+USORF command answer corrected to return the port number with the right format (byte order swapped was swapped in the previous versions); to get the correct port number the bytes must be swapped by the application.

TCP direct link queue corruption

The TCP direct link procedure has been corrected so that extra NULL characters are never appended to the received data.

B Known limitations

+USOWR: Write Socket Data

The AT+USOWR command in binary mode fails when the packet size is 509. The command works properly for packet sizes other than 509.